

Statement showing the quantity of salt in Bonded Warehouses and afloat on the river Hooghly on the 31st day of August 1922 and transactions during the half-month from the 16th to the 31st August 1922.

Description of Salt.	In Sulkea Government golas (Bonded).	Quantity afloat.	Total.	TRANSACTIONS DURING HALF-MONTH FROM THE 16TH TO THE 31ST AUGUST 1922, INCLUSIVE.			
				Quantity on which duty has been paid.	Manifested quantity arrived in the port of Calcutta.	Deliveries from ship-board for consumption and for inland bonded warehouses.	Deliveries from bonded warehouses for consumption and for inland bonded warehouses.
United Kingdom—	Mds. Srs.	Mds.	Mds. Srs.	Mds.	Mds.	Mds.	Mds.
Liverpool and other Pango salt.	357,368 0	121,371	479,239 0	146,620	72,278	89,600	19,780
Other European countries—							
Spanish salt	459,122 0	...	459,122 0	8,400	...	...	24,100
Hamburg and Bremen salt.	92,696 0	181,651	224,347 0	48,192	60,288	42,960	80,842
Hamburg and Bremen rock salt.	...	...	...	...	...	...	...
Port Said salt	555,361 0	52,986	608,247 0	89,490	239,556	84,400	56,150
Aden and Red Sea—							
Aden salt	1,335,698 0	...	1,335,698 0	146,048	10,289	29,150	79,448
Salif salt ... ..	...	...	...	...	...	...	...
Salif rock salt ... ..	...	...	...	...	...	...	...
Rawayah salt ... ..	...	...	...	...	...	...	...
Massawah salt	252,516 10	180,453	853,969 10	14,058	136,884	...	88,400
Muscat and Persian Gulf—							
Muscat, Lingah and Hanjam salt.	...	...	...	...	...	...	...
Ditto ditto rock salt.	...	...	...	...	...	...	...
British India—							
Bombay salt ... ..	...	...	...	...	...	...	...
Madras salt ... ..	...	...	...	...	...	...	...
Coconada salt ... ..	...	...	...	...	...	...	...
Taticorin salt	26,400 0	...	26,400 0	...	...	...	...
Total	(a) 3,079,161 10	496,861	3,516,022 10	(b) 452,928	521,240	146,040	248,720

(a) Besides 76,546 maunds in balance in stock in the private licensed warehouses at Ramkrishnapur.
(b) This excludes 1,500 maunds passed free of duty for the manufacture of glazed stoneware.

Written off during the half-month—

Wastage in Sulkea golas	3,047
Abandoned and destroyed	...	...	...	...	...	...	408
In transit—							
Liverpool salt	...	...	...	...	...	...	29,680
Port Said salt	...	...	...	...	...	...	76,060
Aden salt	...	...	...	...	...	...	1,960
Massawah salt	...	...	...	...	...	...	8,380

ERRATA.

In column 6 of the statement ending 30th June 1922, published at page 1144 of the Supplement of the *Calcutta Gazette* of 22nd July 1922, the figures against the items of Port Said, Massawah and Bombay salt may be read, "Nil" and that against total of the column may be read "912,101" for "1,411,339."

S. N. GUPTA,

Assistant Collector of Customs for Imports.

CALCUTTA CUSTOM HOUSE, the 8th September 1922.

DISTRICT REPORTS ON WEATHER AND CROPS.

For the week ending on the 6th September 1922.

Summary.—During the week under review seasonable rain fell almost throughout the Presidency. Transplantation of winter paddy and harvesting of autumn crops are nearing completion. Weeding of winter paddy is proceeding favourably. The area transplanted with the crop is likely to approach the normal, and the outlook is reported to be good. The prospects of other standing crops are generally favourable. The average price of common rice for the Province has fallen by about 1·42 per cent. as compared with that of the previous week.

Serial No.	District and subdivision.	Rainfall.	PRICE OF COMMON RICE, IN SEERS, PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches.			
1	24-PARGANAS ...	1·29	5½	5½	Effects of weather on standing crops are good. Re-transplantation of <i>aman</i> paddy continues in Diamond Harbour. <i>Aman</i> paddy is thriving well at Baraset. Harvesting of <i>aus</i> paddy continues in Baraset. Prospects of jute are not favourable at Basirhat. Harvesting of jute continues. Fodder and water are sufficient.
	Diamond Harbour.	3·59	5½	5½	
	Barrackpore ...	0·17	5½	5½	
	Baraset ...	0·94	5	5	
	Basirhat ...	0·72	6½	6¾	
2	NADIA ...	0·72	6½	6½	Harvesting of <i>aus</i> paddy and jute continues. Slight damage to jute by rain and to <i>aus</i> paddy by insect-pests is reported. Prospects of <i>aman</i> paddy are good. Prospects of jute are fair, although slight damage has been reported from Meherpur. Fodder and water are sufficient. Cattle-disease is reported from the Sadar.
	Kushtia ...	0·25	6	6	
	Meherpur ...	0·47	6½	6½	
	Chuadanga ...	0·66	6½	6½	
	Ranaghat ...	1·20	5½	5½	
3	MURSHIDABAD	Nil	6½	6½	Prospects of standing crops are fair. Condition and prospects of jute are not favourable. The flood has caused some damage. Harvesting of jute continues. Scarcity of fodder prevails at Kandi. No large import or export. Cattle-disease is reported from thana Bharatpur in Kandi subdivision.
	Lalbagh ...	1·14	6½	6	
	Jangipur ...	2·76	6½	6½	
	Kandi ...	0·78	8	7½	
4	JESSORE	1·28	6	6	Condition and prospects of jute are not satisfactory. The weather is favourable now. The growth of jute has been retarded by heavy rainfall, which has caused damage. Harvesting has commenced. Prospects of other standing crops are not favourable. Harvesting of <i>aus</i> paddy continues. Cultivation of lands for <i>rabi</i> crops has commenced in places. Export of paddy continues to be reported from Bongaon. Fodder and water are sufficient.
	Jhenidah ...	1·96	5½	(n)	
	Magura ...	1·31	6	5½	
	Narail ...	7·12	5½	5½	
	Bongaon ...	0·35	6½	6½	
5	KHULNA ...	1·06	6	6	Weather seasonable. Condition and prospects of jute and other standing crops are fair. Harvesting of <i>aus</i> paddy and jute continues, and transplantation of <i>aman</i> paddy is nearly finished. The effects of weather on the growth of jute are unfavourable. Slight damage is reported from Syamnagore, Daulatpur and Debhatta thanas. Fodder and water are sufficient.
	Satkhira ...	0·64	6	6	
	Bagerhat ...	1·17	6½	6½	

(a) Not reported.

Serial No.	District and subdivision.	Rainfall.	PRICE OF COMMON RICE, IN SEER, PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches.			
6	BURDWAN ...	2.04	6½	6½	Weather cloudy with occasional showers. Transplantation of <i>aman</i> paddy is finished, and its weeding continues. Harvesting of <i>aus</i> paddy and jute has commenced. Prospects of <i>aman</i> paddy and sugarcane are good.
	Asansol ...	1.31	6	6	
	Katwa ...	2.06	6½	6½	
	Kalna ...	1.41	6½	5½	
7	BIRBHUM ...	2.29	6½	5½	Weather cloudy. Condition of standing crops is good. Fodder and water are sufficient.
	Rampurhat ...	4.85	7	6½	
8	BANKURA ...	1.82	6½	6½	Standing crops are doing well.
	Vishnupur ...	1.54	6½	6½	
9	MIDNAPORE ...	0.92	7½	7½	Condition of winter paddy is favourable. Harvesting of jute is progressing. Transplantation of winter paddy is nearly finished and its weeding continues. Condition of standing crops is favourable.
	Jhargram ...	2.52	6	(n)	
	Ghatal ...	0.24	6½	6½	
	Tamluk ...	0.38	5½	5½	
	Contai ...	2.34	6½	6½	
10	HOOGHLY ...	0.38	5½	5½	Effects of weather on crops are favourable. Fodder is sufficient. Condition and prospects of jute are fair. Harvesting of jute continues.
	Serampore ...	0.28	5½	5½	
	Arambagh ...	0.45	6½	6½	
11	HOWRAH ...	1.91	5½	5½	Re-transplantation and weeding of paddy continue. Cutting of jute continues. Condition of jute is fair.
	Uluberia ...	0.97	5½	5½	
12	RAJSHAHI (RAMPUR-BOALIA).	0.62	6	6	Jute crops has been slightly damaged by heavy rain and insects in Natore. Harvesting of jute continues. Prospects of jute and the effects of weather on the crop are fair. Fodder and water are sufficient. Slight cattle-disease is reported from the Sadar and Natore subdivisions.
	Naogaon ...	1.94	5½	5½	
	Nator ...	1.31	6	6	
13	DINAJPUR ...	3.38	7½	7½	Weather seasonable. Prospects of winter paddy are good and its transplantation is practically finished. Harvesting of jute and <i>bhadoi</i> paddy continues. Fodder and water are sufficient.
	Thakurgaon ...	2.94	8	8½	
	Balurghat ...	3.32	7½	7½	
14	JALPAIGURI ...	3.25	6½	6½	State of jute is normal. There has been no damage. Harvesting of jute and <i>bhadoi</i> paddy is continuing. Transplantation of winter paddy is going on.
	Alipur ...	3.78	6	6	

(n) Not reported.

Serial No.	District and subdivision.	Rainfall.	PRICE OF COMMON RICE, IN SEERS, PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches.			
15	DAIRJEELING ...	4.52	5	5½	Maize and potatoes are being harvested. <i>Marua</i> and paddy seedlings are being transplanted. Effects of weather on jute and the condition of the crop are good. Harvesting of jute is making good progress. Fodder and water are sufficient. Cattle-disease exists in places.
	Kurseong ...	5.23	6	6	
	Siliguri ...	10.75	6	6	
	Kalimpong ...	6.01	5½	6	
16	RANGPUR ...	1.47	6½	6½	Transplantation of winter rice and steeping of jute are being retarded for want sufficient rainfall. Cattle-disease still continues in all the thanas of the Gaibandha subdivision. Fodder and water are sufficient.
	Nilphamari ...	0.62	6½	6½	
	Kurigram ...	0.95	6½	6½	
	Gaibandha ...	0.69	6½	6½	
17	BOGRA ...	0.70	7½	7½	Harvesting of <i>aus</i> paddy and jute and steeping of jute and the transplantation of winter paddy seedlings continue. Condition and prospects of jute are fair.
18	PABNA ...	1.16	5½	5½	Weather partially rainy and cloudy. Rainfall during the week has improved the condition and prospects of standing crops. Harvesting of jute and <i>aus</i> paddy still continues. There has been no damage to jute by insects during the week. Condition and prospects of jute are fair. Agricultural stock is sufficient. Rice market is steady. Pasturage, fodder and water are sufficient.
	Sirajganj ...	2.24	6½	6½	
19	MALDA ...	0.87	6	6	Transplantation of winter paddy is nearly completed and its prospects are good. The prospects of jute are not good as they have become stunted in growth due to damage by previous heavy rain and floods. Fodder and water are sufficient.
20	COOCH BEHAR	(n)	(n)	7½	Report not received.
21	DACCA ...	2.85	7	6½	Weather seasonable. Steeping and drying of jute continue. Transplantation of winter paddy is nearly finished. Rice market shows a downward tendency. Fodder and water are sufficient.
	Manikganj ...	1.45	7½	(n)	
	Narayanganj ...	2.13	7½	7	
	Munshiganj (a)	1.56	6½	(n)	
22	MYMENSINGH...	4.12	6½	6½	Weather seasonable. Prospects of standing crops are good. Condition and prospects of jute are fair and the effects of weather on the crop are fair. Harvesting of jute is making satisfactory progress. Fodder and water are sufficient. Harvesting of <i>aus</i> paddy is nearly completed and transplantation of <i>aman</i> paddy seedlings is continuing.
	Jamalpur ...	2.53	6½	6½	
	Tangail ...	0.62	6½	7	
	Netrokona ...	4.32	6½	6½	
	Kishorganj ...	2.34	5½	5½	

(a) Munshiganj being very near to Dacca and Narayanganj, its rainfall statistics are not quoted. To give information regarding the northern part of the district, rainfall figures for Kapasia thana are reported here.

(n) Not reported.

Serial No.	District and subdivision.	Rainfall.	PRICE OF COMMON RICE, IN SEERS, PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches.			
23	FARIDPUR ...	1.24	{ 6½ 6½ }	{ 6 6½ }	Prospects of standing crops are unfavourable. Fodder is insufficient, except in Goalundo.
	Goalundo (Rajburi).	1.18	6	6	
	Madaripur ...	1.03	6½	6½	
	Gopalganj (a) ...	1.61	6	(n)	
24	BAKARGANJ (BARISAL).	1.57	6	6½	Weather seasonable. Prospects of standing crops are fair. The condition of jute has improved. About ten annas crop has been harvested. Fodder and water are sufficient.
	Pirojpur ...	0.76	5½	5½	
	Patuakhali ...	2.89	6½	(n)	
	Dakshin Shabazpur (Bhola).	4.16	7½	7½	
25	CHITTAGONG ...	1.78	{ 5½ 6½ }	{ 5½ 6½ }	Transplantation of <i>aman</i> paddy and harvesting of <i>aus</i> paddy are in progress. Prospects of standing crops are fair. Fodder is sufficient. <i>Panga</i> salt is selling at 13 seers per rupee at Sadar subdivision and 10½ seers at Cox's Bazar. Cattle-disease is reported from Satkania.
	Cox's Bazar ...	1.65	6	6	
26	TIPPERA (COMILLA).	1.52	5½	5½	Weather hot and cloudy. Harvesting of <i>aus</i> paddy and jute is nearing completion and transplantation of winter paddy is in full swing. Cattle-disease is reported from the Brahmanbaria subdivision. Condition and prospects of jute and <i>aus</i> paddy are satisfactory. The weather condition is favourable to jute.
	Brahmanbaria	1.20	5½	6½	
	Chandpur ...	2.66	6½	6½	
27	NOAKHALI ...	7.37	5½	5½	Weather seasonable. Prospects of standing crops are good. Transplantation of <i>aman</i> paddy seedlings and harvesting of <i>aus</i> paddy are nearly completed. Prospects and condition of jute are good and its harvesting is almost over. Fodder and water are sufficient.
	Feni ...	4.48	6	(n)	
28	CHITTAGONG HILL TRACTS.	4.83	5½	6	Prospects of crops are favourable. Fodder and water are sufficient. Condition of cotton is not good.
29	TRIPURA STATE	1.11	5½	5½	Weather seasonable. Cotton is in flower in some places. Fodder and water are sufficient. Harvesting of jute commences. Cleaned cotton sells at Rs. 26 to 35 per maund. Cattle-disease exists in two divisions.

• Burma rice.

(a) The rainfall at Haridaspur, which is very near to Gopalganj, is shown here.

(n) Not reported.

J. GHOSH,
for Director of Agriculture, Bengal.

DACCA, the 9th September 1922.

Wholesale prices current of food-grains, salt, etc., in the undermentioned parts of Bengal for the second-half of August 1922.

Parts.	PADDY, LOCAL (BEST QUALITY).			PADDY, LOCAL (COMMON QUALITY).			RICE, LOCAL (BEST QUALITY).		
	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
1	2	3	4	5	6	7	8	9	10
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta ...	4 12 0	4 12 0	3 12 0	4 6 0	4 6 0	3 0 0	9 8 0	9 8 0	9 8 0
Burdwan ...	(a)	(a)	4 6 0	3 5 0	3 7 0	4 5 6	8 0 0	8 0 0	10 0 0
Raniganj ...	.....	.....	.....	.....	.....	.....	.....	.....	.....
Midnapore ...	3 8 0	3 8 0	4 2 0	3 2 0	3 2 0	3 12 0	7 8 0	8 0 0	8 0 0
Chittagong ...	3 8 0	3 12 0	3 8 0	3 0 0	3 4 0	3 4 0	7 0 0	7 4 8	8 0 0
Dacca ...	4 0 0	4 0 0	3 7 0	3 8 0	3 10 0	3 0 0	7 4 0	7 8 0	7 2 0
Pabna ...	3 13 0	4 0 0	4 1 6	3 10 0	3 13 0	3 13 0	8 0 0	8 0 0	7 10 0
Rangpur ...	4 0 0	4 0 0	4 4 0	3 4 0	3 4 0	3 12 0	8 0 0	8 0 0	8 12 0
Serajeanj (Pabna).	.....	.....	.....	.....	.....	.....	.....	.....	.....
Barisalbari (Mymensingh).	.....	.....	.....	.....	.....	.....	.....	.....	.....
Narayanganj (Dacca).	.....	.....	.....	.....	.....	.....	.....	.....	.....

Parts.	RICE, LOCAL (COMMON QUALITY).			WHEAT.			KALAI DAL.		
	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	11	12	13	14	15	16	17	18	19
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta ...	8 0 0	8 0 0	8 0 0	8 8 0	8 8 0	8 8 0	6 5 0	6 0 0	6 0 0
Burdwan ...	8 0 0	8 0 0	7 12 0	8 0 0	8 12 0	8 0 0	8 0 0	7 12 0	7 4 0
Raniganj ...	.....	.....	.....	.....	.....	.....	.....	.....	.....
Midnapore ...	5 8 0	6 0 0	7 0 0	(a)	(a)	8 8 0	8 12 0	8 12 0	8 0 0
Chittagong ...	8 0 0	6 4 0	8 8 0	.....	.....	.....	.....	.....	.....
Dacca ...	6 8 0	6 0 0	5 10 0	7 4 0	7 0 0	6 2 0	5 0 0	5 0 0	4 8 0
Pabna ...	6 8 0	6 12 0	7 4 0	6 4 0	6 8 0	6 11 0	7 4 0	7 4 0	.....
Rangpur ...	6 4 0	6 4 0	7 8 0	7 8 0	7 8 0	6 12 0	.....	.....	.....
Serajeanj (Pabna).	.....	.....	.....	.....	.....	.....	.....	.....	.....
Barisalbari (Mymensingh).	.....	.....	.....	.....	.....	.....	.....	.....	.....
Narayanganj (Dacca).	.....	.....	.....	.....	.....	.....	.....	.....	.....

(a) Not available.

(c) No transaction.

Wholesale prices-current of food-grains, salt, etc., in the undermentioned marts of Bengal for the second-half of August 1922.

Marts.	GRAM.			ARHAR DAL.			LINSSEED.		
	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	20	21	22	23	24	25	26	27	28
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta	5 12 0	5 12 0	5 0 0	8 8 0	8 8 0	8 0 0	11 0 0	11 0 0	12 0 0
Burdwan	5 0 0	5 4 0	6 8 0	8 0 0	8 0 0	8 8 0	(a)	(a)	10 8 0
Raiganj	.....	.....	.....	.....	.....	.....	.....	.....	.....
Midnapore	6 8 0	6 8 0	7 0 0	10 8 0	10 8 0	{ 8 8 0 to 10 8 0 }	8 12 0	8 12 0	10 0 0
Chittagong	7 8 0	7 8 0	7 8 0	10 0 0	10 0 0	14 0 0	12 0 0	12 0 0	12 0 0
Dacca	7 8 0	8 0 0	8 0 0	10 0 0	10 0 0	9 0 0	8 0 0	7 12 0	6 4 0
Pabna	5 12 0	6 0 0	.....	11 0 0	11 0 0	11 0 0	8 8 0	8 12 0	9 0 0
Rangpur	7 8 0	7 8 0	.....	9 0 0	9 0 0	9 0 0	(n)	.....	.....
Seraiganj (Pabna).	.....	.....	.....	.....	.....	.....	.....	.....	.....
Barisalbari (Mymensingh).	.....	.....	.....	.....	.....	.....	.....	.....	.....
Narayanganj (Dacca).	.....	.....	.....	.....	.....	.....	.....	.....	.....

Marts.	MUSTARD.			GUR.			COTTON (CHINNED).		
	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	20	20	21	21	22	24	25	26	27
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta	10 0 0	10 0 0	11 8 0	8 0 0	8 5 0	10 0 0	No transaction		
Burdwan	{ 8 0 0 to 10 0 0 }	{ 8 0 0 to 10 0 0 }	8 8 0	{ 7 0 0 to 11 0 0 }	{ 8 0 0 to 10 0 0 }	10 0 0	.....	.....	.....
Raiganj	.....	.....	.....	.....	.....	.....	.....	.....	.....
Midnapore	{ 10 8 0 to 12 0 0 }	{ 10 8 0 to 12 0 0 }	{ 10 4 0 to 11 8 0 }	10 8 0	10 8 0	{ 11 0 0 to 12 8 0 }	.....	.....	.....
Chittagong	10 8 0	10 0 0	9 0 0	10 0 0	10 0 0	11 0 0	.....	.....	.....
Dacca	9 0 0	9 0 0	8 12 0	12 0 0	12 0 0	12 4 0	.....	.....	.....
Pabna	9 0 0	9 0 0	8 8 0	6 12 0	6 4 0	7 8 0	.....	.....	.....
Rangpur	8 8 0	8 8 0	8 0 0	7 8 0	7 8 0	8 0 0	.....	.....	.....
Seraiganj (Pabna).	.....	.....	.....	.....	.....	.....	.....	.....	.....
Barisalbari (Mymensingh).	.....	.....	.....	.....	.....	.....	.....	.....	.....
Narayanganj (Dacca).	.....	.....	.....	.....	.....	.....	.....	.....	.....

(n) Not reported.

(a) Not available.

Wholesale prices-current of food-grains, salt, etc., in the undermentioned marts of Bengal for the second-half of August 1922.

Marts	JUTE.			ONNE.			HIDE (COW). ^a		
	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	38	39	40	41	42	43	44	45	46
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta	{ (1) 18 8 0 (2) 14 8 0 (3) 11 12 0 }	{ (1) 18 0 0 (2) 15 0 0 (3) 12 4 0 }	{ (1) 13 8 0 (2) 12 8 0 (3) 9 11 0 }	100 0 0	98 0 0	80 0 0	365 0 0 ^b	360 0 0 ^b	500 0 0 ^b
Bardwan	...	...	...	...	...	...	...	...	...
Raniganj	...	...	...	...	...	...	...	...	...
Midnapore	...	...	...	...	...	...	...	...	...
Chittagong	...	...	...	...	...	...	...	...	...
Dacca	...	...	...	...	...	...	...	...	...
Pabna	...	...	...	...	...	...	...	...	...
Rangpur	...	...	...	...	...	...	...	...	...
Serajganj (Pabna).	{ 18 0 0 to 15 0 0 }	{ 11 12 0 to 13 12 0 }	{ 4 8 0 to 7 8 0 }	...	...	...	...	...	...
Barisalbari (Mymensingh).	{ 14 0 0 to 18 0 0 }	{ 14 0 0 to 18 0 0 }	{ 8 8 0 to 9 8 0 }	...	...	...	...	...	...
Narayanganj (Dacca).	{ 8 0 0 to 14 0 0 }	{ 8 12 0 to 12 12 8 }	{ 7 0 0 to 9 0 0 }	...	...	...	...	...	...

(1) "Price of jaf fours."
(2) "Price of district fours."
(3) "Weighted average price."

Marts.	IRON.			SALT.			KEROSENE OIL.		
	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	47	48	49	50	51	52	53	54	55
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta	(n)	(n)	10 0 0	(n)	244 0 0	3 8 0 ^(b)	Swan ^(b) 5 14 0 Rising sun. 7 8 0 Elephant. 7 7 0	Swan 5 14 0 Rising sun 7 8 0 Elephant. 7 7 0	4 0 0
Bardwan
Rangpur
Midnapore
Chittagong
Dacca
Pabna
Raniganj
Serajganj (Pabna).
Barisalbari (Mymensingh)
Narayanganj (Dacca).

(a) Per 100.

(n) Not reported.

(b) Per maund.

Wholesale prices-current of food-grains, salt, etc., in the undermentioned marts of Bengal for the second-half of August 1922.

Marts.	MUSTARD OIL.			FIREWOOD.			COAL (BENGAL).		
	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	54	57	58	59	60	61	62	63	64
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta	24 0 0	24 0 0	25 0 0	0 10 12 to 0 11 12	0 11 0	0 14 0	(n)	(n)	0 14 0
Bardwan	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0
Baniganj	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 5 0	0 4 8	0 6 0
Midnapore	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0
Chittagong	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0
Dacca	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0
Pabna	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0
Rangpur	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0
Serajeonj (Pabna).	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0
Sarisabari (Mymensingh).	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0
Narayanganj (Dacca).	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0

(n) Not reported.

J. GHOSH,
for Director of Agriculture, Bengal.

DACCA, the 6th September 1922.

Prices-current (retail) of food-grains, salt, etc., in the districts of Bengal for the second-half of August 1922.

		QUANTITY PER RUPEE IN SEER OF EIGHTY TOLAS.																		
		COMMON RICE.									KALAI DAL (<i>Phaseolus radiatus</i>).			ARHAR (DAL) OR THUR CADIAN PEA (<i>Cajanus indicus</i>).			SALT.			
		Average.			Cheapest.															
Division.	Number.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	
DISTRICTS AND PARTS.																				
PRESIDENCY.	24-PARGANAS.		S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	
	1	Obelia Hat ...	5 8	5 0	4 9	6 0	6 0	6 0	4 8	4 8	5 0	4 0	4 0	4 0	10 0	10 0	11 0			
	2	Magra Hat ...	5 11	5 11	5 0	6 2	5 14	5 6	(a)	(a)	(a)	4 0	4 0	4 1	12 5	12 0	12 8			
	3	Calcutta-Bellaghata ...	4 11	4 11	4 14	7 0	7 0	7 6	6 2	6 2	6 2	4 7	4 7	4 11	10 0	10 0	10 0			
	NADIA.																			
	4	Goarl ...	6 7	6 4	5 14	6 2	6 6	6 6	4 0	4 0	4 0	4 0	3 9	4 11	10 11	10 11	13 4°			
	5	Ranarhat ...	5 8	5 8	5 0	5 12	5 12	6 0	4 8	4 8	5 0	4 0	4 0	4 0	10 8	10 8	10 8°			
	MURSHIDABAD.																			
	6	Bethampore ...	6 4	6 4	5 0	6 12	7 12	5 4	6 0	6 0	5 4	6 0	6 0	5 4	13 0	13 0	13 0°			
	7	Kandi ...	7 8	7 0	5 8	7 12	7 4	5 12	5 8	5 0	6 0	5 0	5 0	4 10	12 0	12 0	13 8			
	8	Jaspur ...	6 8	6 8	5 4	6 12	6 12	5 8	4 4	4 4	4 8	5 0	5 0	5 0	13 0	13 0	14 0			
	JESSORE.																			
	9	Sadar ...	6 0	6 0	5 8	6 8	6 8	6 12	4 0	3 4	4 0	3 12	3 4	3 4	11 0	13 0	12 8°			
	10	Bangson ...	5 12	5 8	5 8	6 12	6 10	6 6	3 3	3 3	3 3	4 0	4 0	4 0	10 10	10 10	11 10°			
	KHULNA.																			
	11	Sadar ...	6 0	6 8	6 12	7 0	7 8	6 12	4 8	6 0	4 0	4 8	4 0	3 12	10 8	8 0	10 8			
	12	Bagerhat ...	5 5	6 15	7 0	7 8	7 12	7 8	5 8	5 8	5 0	3 8	3 8	3 8	10 0	8 0	10 0			
BURDWAN.																				
13	Sadar ...	6 8	6 2	5 0	7 8	6 12	5 8	4 12	6 0	5 8	5 0	4 6	4 12	13 0	13 0	11 8				
14	Kalna ...	6 6	5 11	5 6	6 10	6 6	5 8	5 0	5 0	6 2	4 8	4 7	4 0	15 9	15 9	10 4				
BIRBHUM.																				
15	Suri ...	6 6	6 6	5 0	7 0	7 0	5 6°	6 0	6 0	4 8	4 0	4 0	4 0	13 0	13 0	13 0°				
16	Hempur Hat ...	5 12	6 4	5 0	7 0	6 8	5 8	5 8	5 0	5 0	4 4	4 8	4 0	11 0	11 0	10 0				
BANKURA.																				
17	Sadar ...	6 12	6 4	5 10	7 8	7 0	6 0	6 4	6 4	5 8	4 0	4 0	4 0	11 0	11 0	12 0				
	Vishnupur ...	6 8	6 4	5 0	7 0	6 8	5 8	6 4	6 0	5 4	4 8	4 8	4 8	12 8	13 0	11 0				
MIDNAPORE.																				
18	Sadar ...	6 14	6 14	5 11	7 14	7 14	6 0	4 4	4 4	5 0	3 8	3 8	3 12	10 8	10 8	9 0				
19	Coutal ...	7 8	7 0	6 0	8 0	7 8	6 8	4 8	5 0	3 8	4 0	4 0	3 12	12 8	12 8	10 8				
HOOGHLY.																				
20	Sadar ...	5 12	5 12	5 0	6 6	6 4	5 8	5 4	5 4	4 8	5 4	5 0	4 8	13 0	12 8	11 8				
21	Arambagh ...	8 6	8 4	5 8	6 12	6 12	5 11	3 12	3 8	7 0	3 6	3 7	3 8	12 8	12 0	10 8				
HOWRAH.																				
22	Sadar ...	5 4	5 0	5 0	6 8	6 8	6 2	5 8	6 8	4 8	5 0	5 0	4 0	14 0	14 0	12 0				
23	Uluberia ...	5 8	5 8	5 2	6 0	6 0	5 8	5 4	5 4	5 10	4 4	4 4	4 0	12 12	12 12	12 12				
RAJSHAH.																				
24	Rampur-Boaha ...	6 4	6 0	5 4	7 8	6 12	6 12	5 4	5 4	6 0	4 14	4 14	3 6	10 12	12 0	12 0°				
25	Nator ...	6 0	5 13	5 5	6 12	6 6	6 0	4 14	4 14	5 8	4 14	4 14	5 8	9 12°	9 12°	8 12				
26	Dinajpur—Railway Bazar HAT.	6 14	6 14	5 11	7 3	7 3	6 0	4 12	4 12	4 13	3 9	3 9	4 13	10 0	10 0	10 0				
27	Jaipalguri—Sadar ...	6 12	7 0	4 8	7 8	8 0	5 12	6 0	5 12	5 8	4 0	4 8	4 0	10 0°	10 0°	9 8				

° Karkuah.

(a) Not available.

Prices-current (retail) of food-grains, salt, etc., in the districts of Bengal for the second-half of August 1922.

Division.	Number.	DISTRICTS AND MAINTS.	QUANTITY PER RUPEE IN SEER OF EIGHTY TOLAS.														
			COMMON RICE.						KALAI DAL (<i>Phaseolus radiatus</i>).			ARRAR (DAL) OR TUR CHANAN PEA (<i>Cajanus indicus</i>).			SALT.		
			Average.			Cheapest.			Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
			Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.									
RAJSHAHI—contd.		DARJEELING.	S. On.	S. On.	S. On.	S. On.	S. On.	S. On.	S. On.	S. On.	S. On.	S. On.	S. On.	S. On.	S. On.	S. On.	S. On.
	29	Sadar	5 8	5 12	3 12	6 8	6 8	4 12	3 4	3 4	3 3	2 12	2 12	3 4	8 0	8 8	7 0
	30	Shiliguri	5 0	5 0	4 8	6 0	7 0	4 8	4 0	4 0	4 0	4 0	4 0	4 0	8 0	8 0	8 0
		BANORPUR.															
	31	Sadar	6 8	6 8	4 8	7 12	7 12	5 4	4 8	4 8	4 8	4 8	4 8	4 8	8 0	8 0	8 0
	32	Nilphamari	6 10	6 10	8 0	(a)	(a)	8 0	3 8	3 8	4 4	3 8	3 8	4 4	10 0	10 0	10 0
	33	Bogra—Sadar	6 12	6 12	5 12	6 15	6 15	6 0	4 0	4 0	4 0	4 0	4 0	4 0	10 0	10 0	9 12
		PABNA.															
	34	Sadar	6 0	5 12	5 4	6 2	6 0	6 8	5 8	5 8	5 0	3 8	3 8	3 8	8 8	8 8	12 0
	35	Shirajganj	5 7	6 4	6 0	7 7	7 8	8 8	6 0	6 0	5 12	3 7	3 7	4 8	9 8	10 0	9 0
DACCA.		MALDA.															
	36	Sadar	6 8	6 8	5 8	7 8	7 0	5 12	5 0	5 0	6 0	5 0	5 0	4 0	11 0	10 0	13 0
	37	Bala—Nawabganj	7 8	6 8	6 0	7 12	7 4	6 4	7 0	6 8	6 8	5 12	5 12	4 8	12 8	12 8	13 0
		DACCA.															
	38	Sadar	6 8	6 0	6 12	7 0	6 8	7 4	8 0	8 0	9 2	4 0	4 0	4 8	10 8	10 8	10 8
	39	Munshir Hat	6 8	6 0	6 8	7 0	6 8	7 4	(a)	(a)	(a)	(a)	(a)	(a)	13 0	13 0	11 0
		HYMENANGH.															
	40	Nasrabad	6 4	6 12	5 0	7 0	7 0	5 8	4 8	3 10	4 0	5 0	5 0	4 0	12 0	11 12	9 0
	41	Netrakona	6 4	6 4	6 4	6 10	6 10	6 8	4 0	4 0	4 0	4 0	4 0	4 0	10 8	10 8	9 0
		PARIDPUR.															
CHITTAGONG.	42	Sadar	6 0	5 12	5 8	6 12	6 4	6 12	5 12	6 0	4 0	3 4	3 4	3 4	9 0	9 0	11 4
	43	Majbari	6 0	5 12	5 12	6 4	6 0	6 4	5 0	5 0	5 8	4 0	4 0	3 8	11 0	11 0	11 6
		BARANAGANJ.															
	44	Barisal	5 11	5 12	6 1	6 3	6 8	6 11	8 0	5 5	9 0	4 0	3 8	3 3	10 10	9 2	10 8
	45	Pirojpur	5 8	5 8	5 12	7 4	6 4	6 0	6 4	6 4	5 8	(a)	(a)	(a)	8 0	8 0	10 0
		TIPPERA.															
	46	Comilla	5 8	5 8	5 11	5 15	5 15	6 3	(a)	(a)	5 0	4 0	4 0	3 8	11 8	11 8	12 12
	47	Chandpur	6 0	5 12	5 14	6 8	6 4	9 12	5 12	5 0	5 6	4 4	4 0	3 10	11 0	12 8	12 8
		NOAHMALL.															
	48	Kalitara Hat	5 8	5 4	5 4	6 8	5 8	7 0	7 8	7 8	7 0	3 8	3 8	(c)	11 0	11 0	11 0
CHITTAGONG.	49	Feni Hat	6 0	6 0	6 10	9 7	6 3	7 0	3 8	3 8	4 0	(c)	(c)	(c)	13 0	13 0	10 8
		CHITTAGONG.															
	50	Sadar	6 0	5 0	6 4	6 8	6 0	6 12	6 0	4 8	6 4	3 12	3 12	4 0	13 0	13 0	12 8
	51	Oox's Bazar	6 0	6 0	6 0	(a)	(a)	(c)	4 0	4 0	3 8	3 8	3 8	3 8	10 8	10 8	9 8
	52	Chittagong Hill Tracts—Rangamati.	5 8	5 8	6 0	7 0	6 8	7 8	3 0	3 0	2 10	3 0	3 0	2 10	10 8	10 8	10 8

(a) Not available.

(c) No sale.

(a) Not reported.

* Karkash.

(d) 1st.

J. GHOSH, for Director of Agriculture, Bengal.

DACCA, the 6th September 1922.

Statement of weekly gauge-readings on the river Ganges at Rampur-Boalia for the week ending 2nd September 1922.

Date.	Hour.	Height of surface above zero.	Height of surface above P. W. D. datum.	Height of surface above P. W. D. datum on the same date last year.	Remarks.
1922.					
27th August	8 A.M.	59.85	59.85	60.60	P. W. D. datum 6.25 ft. above Kidderpore old dock sill. B. M. on College step 64.93 Zero value of gauge 0.00.
28th "	8 "	59.95	59.95	60.60	
29th "	8 "	60.20	60.20	60.60	
30th "	8 "	60.25	60.25	60.60	
31st "	8 "	60.35	60.35	60.60	
1st September	8 "	60.50	60.50	60.55	
2nd "	8 "	60.65	60.65	60.70	

The previous year		Highest water-level		Old value.	According to P. W. D. datum.
Record	Ditto	Lowest	"	on 7th September 1921	60.80
Do.	"	Highest	"	on 27th and 28th April and 9th May 1922	64.70
Do.	"	"	"	69.25 on 26th August 1879	64.55
Do.	"	"	"	69.08 on 9th September 1886	64.27
Do.	"	"	"	68.80 on 26th August 1906	63.47
Do.	"	"	"	68.21 on 26th August 1890	63.40
Do.	"	Lowest	"	37.68 on 26th April 1884	32.82
Do.	"	"	"	38.13 on 14th and 16th April 1883	32.32
Do.	"	"	"	39.02 on 21st and 22nd April 1897	34.21
Do.	"	"	"	39.28 on 6th and 7th May 1908	34.47

N.B.—The gauge-readings commenced from the 1st August 1887.

JADAB CHANDRA GHOSH, for Subdivisional Officer,
BOALIA, the 2nd September 1922. I. D., Jangipur.

Statement of weekly gauge-readings on the rivers Ganges and Brahmaputra at Goalundo for the week ending 2nd September 1922.

Month and date.	Hour.	Height of surface above or below zero of gauge.	Height of surface above mean sea-level.	Height of surface above mean sea-level on same date last year.	Remarks.
1922.					
27th August	7 A.M.	23.8	23.8	24.2	Zero is placed at mean sea-level. The bench-mark for the gauge is on a pucca pillar between the passenger ghat and Chandpore ghat. Its reduced level is 26.84.
28th "	7 "	23.9	23.9	24.1	
29th "	7 "	23.9	23.9	24.0	
30th "	7 "	23.8	23.8	24.1	
31st "	7 "	23.8	23.8	24.1	
1st September	7 "	23.7	23.7	24.1	
2nd "	7 "	23.7	23.7	24.2	

The previous year		Highest water-level		...
Ditto	"	Lowest	"	25.8 on 27th July 1921.
Record (H. F. in Brahmaputra and Ganges)	"	Highest	"	4.8 on 19th February and 4th March 1921.
Record (average flood in Brahmaputra and Ganges)	"	"	"	26.75 on 38th August 1906.
Record (H. F. in Brahmaputra and Ganges)	"	Ditto	"	26.74 on 30th and 31st August 1898.
Record (H. F. in Brahmaputra only)	"	"	"	25.66 on 11th to 17th and 31st August 1889 and on 1st to 3rd September 1899.
Record	"	Ditto	"	25.66 on 31st July 1900.
Do.	"	Lowest	"	1.0 on 8th February 1911.
Do.	"	"	"	2.42 on 18th March 1908.
Do.	"	"	"	2.91 on 21st to 24th February 1894 and 8th to 9th March 1884.
Do.	"	"	"	3.16 on 9th to 11th March 1886.
Do.	"	"	"	3.16 on 16th, 17th and 29th to 31st March 1901.

N.B.—The gauge-readings commenced from 3rd October 1909.

R. C. GUHA, for Subdivisional Officer,
RAJBARI, the 2nd September 1922. P. W. D., Faridpore.

*Statement showing the gauge-readings at Dacca Water-works station on the river
Bariganga for the week ending 26th August 1922.*

Date.	At 7 A.M.	AT HIGHEST WATER.		AT LOWEST WATER.		At 3 P.M.	REMARKS.
		Time.	Readings.	Time.	Readings.		
1922.							
20th Aug.	67.65	...	...	...	...	67.7	
21st "	67.65	...	...	...	...	67.65	
22nd "	67.6	...	...	...	...	67.6	
23rd "	67.56	...	...	...	...	67.5	
24th "	67.5	...	...	...	...	67.5	
25th "	67.4	...	...	...	...	67.4	
26th "	67.45	...	...	...	...	67.45	

Notable high and low water-levels of previous years.

					High.
27th August	1906	...	...	...	70.5
5th September	1909	...	...	...	67.86
10th August	1910	...	...	...	69.86
1st "	1911	...	...	...	68.49
15th "	1912	...	...	...	67.16
31st "	1916	...	...	...	69.7
18th "	1916	...	...	...	68.1
12th "	1917	...	...	...	67.1
31st "	1918	...	...	...	69.12
2nd "	1919	...	...	...	66.8
8th September	1920	...	...	...	66.9
26th July	1921	...	...	...	68.4
					Low.
28rd February	1907	...	...	...	51.06
18th "	1908	...	...	...	51.06
12th March	1912	...	...	...	51.06
6th "	1914	...	...	...	50.60
22nd February	1916	...	...	...	50.80
16th "	1916	...	...	...	50.60
8rd March	1917	...	...	...	51.0
21st February	1918	...	...	...	51.40
26th "	1919	...	...	...	50.4
18th "	1920	...	...	...	50.9
19th "	1921	...	...	...	50.9

N.B.—Zero of the gauge at Dacca Water-works = - 48.61 with reference to P. W. D. datum.

B. L. SUBARWAL, *Executive Engineer,*
Khutna Division.

CALCUTTA, the 8th September 1922.

Statement showing the daily gauge-readings of certain rivers at the stations named below for week ending Thursday, the 7th September 1922.

Name of river and place where readings are taken.	Date.	Hour.	Reading on gauge.	Value of zero referred to P. W. D. datum.	Height above P. W. D. datum.	COMPARED WITH PREVIOUS DAY'S HEIGHT.		HEIGHT ABOVE P. W. D. DATUM ON SAME DATE IN—		Remarks.
						Rise.	Fall.	1921.	1920.	
Ganges ...	2nd Sept. 1922	6 A.M. ...	125.90'	0.00'	125.90'	0.30'	...	125.50'	117.30'	
	2nd "	6 "	26.90'	56.319'	82.219'	0.30'	...	82.419'	75.819'	
	2nd "	8 hours ...	23.70'	4.896'	28.596'	Steady		29.096'	26.896'	
Brahmaputra	2nd "	8 A.M. ...	23.40'	135.18'	158.58'	0.30'	...	159.38'	160.38'	
	2nd "	12 hours ...	38.95'	1.509'	40.459'	...	0.05'	41.909'	42.709'	
	2nd "	10 A.M. ...	19.00'	314.18'	333.18'	...	0.40'	330.58'	332.88'	
	2nd "	6 hours	19.33'	1.61'	20.94'	...	0.08'	20.61'	20.53'	
Meghna	2nd "	15.30 "	12.25'	1.61'	13.86'	0.08'	..	14.11'	14.61'	
	2nd "	7 "	30.10'	1.509'	31.609'	0.10'	...	29.309'	...	
	2nd "	7 A.M. ...	29.50'	-8.62'	20.88'	...	0.10'	20.08'	20.58'	
Dhaleswari	2nd "	6 "	26.63'	1.509'	28.139'	...	0.01'	29.709'	17.629'	
Bhagirathi	2nd "	6 "	8.58'	92.58'	101.16'	...	1.33'	102.75'	97.58'	
Damodar	2nd "	6-30 "	23.58'	-5.59'	17.99'	...	0.12'	17.80'	17.95'	
Lakhya	2nd "	6 "	14.90'	-0.599'	14.301'	...	0.20'	13.201'	12.701'	
Madaripur Bil Route (Lower Kumar).	2nd "	6 "								

Statement showing the daily gauge-readings of certain rivers at the stations named below for week ending Thursday, the 7th September 1922.

Name of river and place where readings are taken.	Date.	Hour.	Reading on gauge.	Value of zero referred to P. W. D. datum.	Height above P. W. D. datum.	COMPARED WITH PREVIOUS DAY'S HEIGHT.		HEIGHT ABOVE P. W. D. DATUM ON SAME DATE IN—		Remarks.
						Rise.	Fall.	1921.	1920.	
Ganges	Monghyr ...	3rd Sept. 1922...	6 A.M. ...	126.00'	0.00'	126.00'	0.10'	...	125.60'	118.00'
	Rajnahal ...	3rd " "	6 " "	27.10'	56.319'	83.419'	0.20'	...	82.569'	76.469'
	Goalundo ...	3rd " "	8 hours ...	23.70'	4.896'	28.596'	Steady	...	29.196'	26.796'
Brahmaputra	Gauhati ...	3rd " "	8 A.M. ...	23.60'	135.18'	158.78'	0.20'	...	158.68'	160.98'
	Sirajganj ...	3rd " "	12 hours ...	38.85'	1.509'	40.359'	...	0.10'	42.009'	42.509'
	Dibrugarh ...	3rd " "	10 A.M. ...	19.20'	314.18'	333.38'	0.20'	...	330.48'	332.68'
Meghna	Bhairab Bazar ...	3rd " "	6 hours	19.33'	1.61'	20.94'	Steady	...	20.69'	20.65'
	Chandpur ...	3rd " "	16-25 "	12.67'	1.61'	14.28'	0.42'	...	14.36'	14.36'
	Fenchuganj ...	3rd " "	7 "	30.10'	1.509'	31.609'	Steady	...	29.309'	31.509'
Dhalewari	Sabhar ...	3rd " "	7 A.M. ...	29.40'	- 8.62'	20.78'	...	0.10'	20.28'	20.58'
Bhagirathi	Swarupganj ...	3rd " "	6 "	26.62'	1.509'	28.129'	...	0.01'	29.809'	17.519'
Damodar	Edilpur ...	3rd " "	6 "	10.67'	92.58'	103.25'	2.08'	...	101.08'	103.25'
Lakhya	Narayanganj ...	3rd " "	6-30 "	23.64'	- 5.59'	18.05'	0.06'	...	18.08'	17.91'
Madaripur Bil Route (Lower Kumar).	Takerhat ...	3rd " "	6 "	14.80'	- 0.599'	14.201'	...	0.10'	13.301'	12.651'

**Statement showing the daily gauge-readings of certain rivers at the stations named below for week ending Thursday,
the 7th September 1922.**

Name of river and place where readings are taken.	Date.	Hour.	Reading on gauge.	Value of zero referred to P. W. D. datum.	Height above P. W. D. datum.	COMPARED WITH PREVIOUS DAYS HEIGHT.		HEIGHT ABOVE P. W. D. DATUM ON SAME DATE IN—		Remarks.
						Rise.	Fall.	1921.	1920.	
Ganges ...	4th Sept. 1922	6 A.M.	126.20'	0.00'	126.20'	0.20'	...	125.90'	118.50'	
	4th " "	6 " "	27.30'	56.319'	83.619'	0.20'	...	82.669'	77.069'	
	4th " "	8 hours	23.80'	4.896'	28.696'	0.10'	...	29.296'	26.996'	
Brahmaputra	4th " "	8 A.M.	23.50'	135.18'	158.68'	...	0.10'	158.38'	160.98'	
	4th " "	12 hours	38.80'	1.509'	40.309'	...	0.05'	42.009'	42.309'	
	4th " "	12 A.M.	19.20'	314.18'	333.38'	Steady		329.98'	332.48'	
Meghna ..	4th " "	6 hours	19.33'	1.61'	20.94'	Steady		20.86'	20.78'	
	4th " "	17-10 "	13.00'	1.61'	14.61'	0.33'	...	14.86'	14.19'	
	4th " "	...	...	1.509'	...	...	...	29.309'	31.459'	
Dhaleswari	4th Sept. 1922	7 A.M.	29.40'	- 8.62'	20.78'	Steady		20.28'	20.48'	
Bhagirathi	4th " "	6 " "	26.61'	1.509'	28.119'	...	0.01'	29.829'	17.949'	
Damodar	4th " "	6 " "	7.75'	92.58'	100.33'	...	0.92'	100.58'	101.00'	
Lakhya	4th " "	6-30, "	23.77'	- 5.59'	18.18'	0.12'	...	18.28'	17.83'	
Madaripur Bil Route (Lower Kumar).	4th " "	6 " "	14.75'	- 0.599'	14.151'	...	0.05'	13.501'	12.651'	

Statement showing the daily gauge-readings of certain rivers at the stations named below for week ending Thursday, the 7th September 1922.

Name of river and place where readings are taken.	Date.	Hour.	Reading on gauge.	Value of zero referred to P. W. D. datum.	Height above P. W. D. datum.	COMPARED WITH PREVIOUS DAY'S HEIGHT.		HEIGHT ABOVE P. W. D. DATUM ON SAME DATE IS—		Remarks.
						Rise.	Fall.	1921.	1920.	
Ganges ...	Monghyr ...	5th Sept. 1922	126.30'	0.00'	126.30'	0.10'	...	125.80'	118.40'	
	Rajnabahal ...	5th "	27.50'	56.319'	83.819'	0.20'	...	82.769'	77.519'	
	Goalundo ...	5th "	23.80'	4.896'	28.696'	Steady		29.396'	26.996'	
Brahmaputra ...	Gauhati ...	5th "	23.20'	135.18'	158.38'	...	0.30'	157.98'	160.98'	
	Sirajganj ...	5th "	38.75'	1.309'	40.259'	...	0.05'	41.809'	42.209'	
	Dibrugarh ...	5th "	18.90'	314.18'	333.08'	...	0.30'	329.58'	332.38'	
Meghna ...	Bhairab Bazar ...	5th "	19.33'	1.61'	20.94'	Steady		20.94'	20.86'	
	Chandpur ...	5th "	12.58'	1.61'	14.19'	...	0.42'	15.36'	13.86'	
	Fenchuganj ...	5th "	31.20'	1.509'	32.709'	...	...	29.359'	31.459'	
Dhaleswari	Sabbar ...	5th "	29.40'	- 8.62'	20.78'	Steady		20.28'	20.28'	
	Swarupganj ...	5th "	26.57'	1.509'	28.079'	...	0.04'	29.769'	18.759'	
	Edilpur ...	5th "	7.33'	92.58'	99.91'	...	0.42'	100.58'	98.83'	
Lakhya	Narayanganj ...	5th "	23.79'	- 5.59'	18.20'	0.02'	...	18.41'	17.83'	
	Madaripur Bil Route (Lower Kumar).	5th "	14.85'	- 0.599'	14.251'	0.10'	...	13.651'	12.601'	

Statement showing the daily gauge-readings of certain rivers at the stations named below for week ending Thursday, .
the 7th September 1922.

Name of river and place where readings are taken.	Date.	Hour.	Reading on gauge.	Value of zero referred to P. W. D. datum.	Height above P. W. D. datum.	Compared with previous day's height.		Height above P. W. D. datum on same date in—		Remarks.
						Rise.	Fall.	1921.	1922.	
Ganges ...	6th Sept. 1922	6 A.M.	126.50'	0.00'	126.50'	0.20	...	125.40'	118.20'	
	6th "	6 "	27.60'	56.39'	83.919'	0.10'	...	82.719'	77.519'	
	6th "	8 hours	23.70'	4.896'	28.596'	...	0.10'	29.496'	26.796'	
Brahmaputra	6th "	8 A.M.	23.10'	135.18'	158.28'	...	0.10'	157.68'	161.08'	
	6th "	12 hours	38.75'	1.509'	40.259'	Steady		41.509'	42.009'	
	6th "	9 A.M.	18.60'	314.18'	332.78'	...	0.30'	329.88'	331.38'	
Meghna	6th "	6 hours	19.33'	1.61'	20.94'	Steady		20.94'	20.82'	
	6th "	8 "	12.75'	1.61'	14.36'	0.17'	...	15.36'	13.36'	
	6th "	7 "	30.50'	1.509'	32.009'	...	0.70'	29.459'	31.309'	
Dhaleswari	6th "	7 A.M.	29.40'	- 8.62'	20.78'	Steady		20.28'	20.18'	
Blagirathi	6th "	6 "	26.59'	1.509'	28.009'	0.02'	...	29.609'	19.489'	
Damodar	6th "	6 "	10.75'	92.58'	103.33'	3.42'	...	100.83'	98.41'	
Lakhya ...	6th "	6-30 "	23.83'	- 5.59'	18.24'	0.04'	...	18.41'	17.41'	
Madaripur Bil Route (Lower Kumar).	6th "	6 "	14.85'	- 0.599'	14.251'	Steady		13.901'	12.501'	

CORPORATION OF CALCUTTA.

Statement showing the accounts of the Sinking Funds and the Reserve Fund of the Corporation of Calcutta for the year 1921-22 prepared under section 141.D of the Calcutta Municipal (Loans) Act, 1914.

Particulars.	Amount invested during the year under section 141 A.	Date of the last investment made previous to 31st March 1922.	Aggregate amount of the securities in the hands of the Corporation on 31st March 1922.*	Aggregate amount up to 31st March 1922 applied under section 141 C in or towards repaying Loans.
	Rs.	1922.	Rs.	Rs.
1. Sinking Fund established under section 138 of the Calcutta Municipal (Loans) Act, 1914.	9,91,315	11th March ...	40,25,000	75,74,680
2. Sinking Fund for repayment of 4 per cent. Calcutta Municipal Debenture Loan of 1914-15.	69,934	29th " ...	4,62,000	.....
3. Sinking Fund for repayment of 4 per cent. Calcutta Municipal Debenture Loan of 1915-16.	94,935	11th " ...	5,95,600	.....
4. Sinking Fund for repayment of 4 per cent. Calcutta Municipal Debenture Loan of 1916-17.	84,682	11th " ...	4,82,000	.....
5. Sinking Fund for repayment of 5½ per cent. Calcutta Municipal Debenture Loan of 1917-18 for 17 years.	36,870	11th " ...	1,44,100	.....
6. Sinking Fund for repayment of 5½ per cent. Calcutta Municipal Debenture Loan of 1917-18 for 28 years.	45,340	11th " ...	1,77,200	.....
7. Sinking Fund for repayment of 5½ per cent. Calcutta Municipal Debenture Loan of 1918-19.	29,980	9th February ...	76,800	.....
8. Sinking Fund for repayment of 5½ per cent. Calcutta Municipal Debenture Loan of 1919-20, dated 1st July 1919.	14,205	11th March ...	30,900	.....
9. Sinking Fund for repayment of 5½ per cent. Calcutta Municipal Debenture Loan of 1919-20, dated 1st January 1920 for 17 years.	36,700	29th " ...	69,700	.....
10. Sinking Fund for repayment of 5½ per cent. Calcutta Municipal Debenture Loan of 1919-20, dated 1st January 1920 for 30 years.	32,300	9th February ...	61,500	.....
11. Sinking Fund for repayment of 6½ per cent. Calcutta Municipal Debenture Loan of 1920-21, dated 1st October 1920.	37,040	11th March ...	37,400	.....
12. Sinking Fund for repayment of 6½ per cent. Calcutta Municipal Debenture Loan of 1920-21, dated 1st December 1920.	67,730	29th " ...	78,100	.....
13. Sinking Fund for repayment of 6½ per cent. Calcutta Municipal Debenture Loan of 1921-22, dated 1st April 1921.	9,000	1st October ...	9,000	.....
14. Reserve Fund for repayment of 5½ per cent. Calcutta Municipal Debenture Loans of 1917-18 at the end of first ten years.	2,03,154	29th March ...	7,90,400	.....
Total ...	17,53,185		70,40,700	75,74,680

* The security has been kept in custody of the Imperial Bank of India, Calcutta.

W. H. ROGERS FORD,
Chief Accountant.

The 17th July 1922.

S. N. MALLIK,
Acting Chairman, Calcutta Corporation.

NOTICE.

NOTICE is hereby given that the General Committee, having previously given notice of their intention to define the general line of buildings on each side of the public street known as Pathuriaghata Street in ward No. 5 and no objection having been received within thirty days from the date of the publication of such notice, made an order under section 350 (4) of Act III (B.C.) of 1899 on the 24th day of August 1922 defining the said line in accordance with the plan approved by the General Committee on the 11th day of May 1922.

S. N. MALLIK, Chairman (actg.).

CENTRAL MUNICIPAL OFFICE, the 7th September 1922.

Vital Statistics of Towns with a population of 50,000 and over of Bengal Presidency for the week ending Saturday, the 21st January 1923.

District.	No.	Towns.	POPULATION UNDER REGISTRATION ACCORDING TO CENSUS OF 1921.			BIRTHS REGISTERED.		DEATHS REGISTERED.														Total of all causes.				Total of causes reported week of the previous year.					
			Male.	Female.	Total.	Number registered (excluding still-born births).	Number still-born.	Cholera.	Small-pox.	Plague.	Malaria.	Rubella fever.	Measles.	Relapsing fever.	Kala-azar.	Other fevers.	Dysentery.	Diarrhoea.	Indigestion.	Pneumonia.	Phthisis.	Other respiratory diseases.	Injuries.	Deaths from child-birth.	Other causes.	Male.	Female.	Total.	Male.	Female.	Total.
Calcutta	1	Calcutta	617,590	390,261	907,851	221	17	15	14	...	14	2	1	...	4	31	37	7	4	53	41	80	13	3	329	267	596	494	205	799	
Bardwan	2	Amardul Mining Settlement.	176,414	153,339	329,753	187	1	4	...	...	...	...	...	...	...	20	5	...	...	...	...	19	...	...	84	51	135	103	97	183
Howrah	3	Howrah	126,473	66,939	193,412	83	2	7	13	...	...	5	1	...	...	15	15	14	...	12	3	27	2	1	24	78	146	135	92	197
Dacca	4	Dacca	67,333	35,117	102,450	98	...	...	...	...	...	...	...	...	3	7	1	1	...	1	3	1	2	...	25	33	57	49	24	80
24-Parganas	5	Manikganj	40,803	25,376	66,179	13	2	3	9	2	3	5	1	4	3	14	12	33	45	37	26	22	59
	6	Bhatpara	44,723	19,386	64,109	14	3	...	1	2	3	5	3	11	6	17
	7	Quamper-Chitpur.	26,339	20,163	46,502	16	1	...	...	...	...	1	...	...	...	5	4	...	...	...	1	6	...	...	9	41	50	35	11	26
	8	Tilagarh	26,533	18,318	44,851	13	17	1	1	2	...	10	11	21	16	7	21

CHAS. A. BENTLEY, Director of Public Health, Bengal.

CALCUTTA, the 30th August 1922.

Vital Statistics of Towns with a population of 50,000 and over of Bengal Presidency for the week ending Saturday, the 28th January 1923.

District.	No.	Towns.	POPULATION UNDER REGISTRATION ACCORDING TO CENSUS OF 1921.			BIRTHS REGISTERED.		DEATHS REGISTERED.																	Total of all causes.			Total of deaths following week of the previous year.				
			Male.	Female.	Total.	Number registered (excluding still-borns).	Still-borns registered.	Cholera.	Small-pox.	Plague.	Malaria.	Enteric fever.	Measles.	Relapsing fever.	Kala-azar.	Other fevers.	Dysentery.	Diarrhoea.	Indigestion.	Pneumonia.	Phthisis.	Other respiratory diseases.	Injuries.	Deaths from child-birth.	Other causes.	Male.	Female.	Total.	Male.	Female.	Total.	
Calcutta	1	Calcutta	617,699	290,261	907,961	389	22	21	14	—	19	4	—	—	2	26	45	9	16	43	33	82	12	4	201	290	540	512	213	665		
Burdwan	2	Asanol Mining Settlement.	176,814	182,529	359,343	147	2	2	—	—	—	—	—	—	—	12	6	—	—	—	—	28	2	—	64	61	103	112	93	208		
Howrah	3	Howrah	128,473	66,670	195,143	66	6	14	7	—	5	1	2	—	—	22	12	12	—	9	2	16	4	2	28	69	124	116	78	194		
Dacca	4	Dacca	67,323	52,117	119,440	43	2	—	—	—	3	—	—	—	4	22	5	—	1	1	—	1	—	—	21	37	59	32	24	67		
24 Parganas	5	Maniktala	40,996	26,476	67,472	26	1	2	—	—	2	—	—	—	—	1	2	2	1	3	1	6	1	—	7	19	29	22	26	48		
	6	Bhatpara	44,722	19,886	64,609	10	—	2	1	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	3	4	10	5	15
	7	Cossipur-Chitpur.	26,259	26,185	52,444	14	—	1	—	—	—	—	—	—	—	—	—	—	—	1	2	6	—	—	13	12	25	11	22	33		
	8	Nagarh	24,533	15,916	40,449	11	—	—	—	—	—	—	—	—	—	11	6	—	—	—	—	—	—	—	2	—	11	8	19	22	36	37

CHAS. A. BENTLEY, Director of Public Health, Bengal.

CALCUTTA, the 30th August 1922.

GOVERNMENT OF BENGAL, IRRIGATION DEPARTMENT.

Approximate return of traffic on the Circular and Eastern Canals for the week ending Saturday, the 2nd September 1922, as compared with the corresponding week of the previous year.

Nature of cargo.	WEEK ENDING SATURDAY, THE 2ND SEPTEMBER 1922.			WEEK ENDING SATURDAY, THE 3RD SEPTEMBER 1921.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
		Mds.	Rs.		Mds.	Rs.
Rice and paddy ...	249	40,200	597	238	38,185	665
Jute ...	31*	24,475	213	54	22,349†	259
Firewood ...	47	30,400	472	107	71,175	1,065
Other articles ...	1,042	311,000	2,874	724	179,759	1,945
Total ...	1,369	406,075	4,156	1,123	311,508	3,934
Empty boats and rafts ...	613	...	1,672	551	...	2,559
GRAND TOTAL ...	1,982	406,075	5,828	1,674	311,508	6,493

* Weight by canal measurement ... 35,625
 † Ditto ditto ... 25,075

T. C. BHATTACHARYA,
Assistant Secretary to the Government of Bengal.

CALCUTTA, the 8th September 1922.



The Calcutta Gazette

WEDNESDAY, SEPTEMBER 20, 1922.

SUPPLEMENT.

Official Papers.

[Non-Subscribers to the GAZETTE may receive SUPPLEMENT separately on payment of five rupees per annum if delivered in Calcutta, or seven rupees and eight annas if sent by post.]

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ANNUAL REPORT OF THE ROYAL BOTANIC GARDEN AND THE GARDENS IN CALCUTTA AND OF THE LLOYD BOTANIC GARDEN, DARJEELING, FOR 1921-22.

ROYAL BOTANIC GARDEN.

1. **General.**—Owing to the severe drought that prevailed during the latter half of the year under review many plants in the open suffered severely and a certain number have died. The rain that has since fallen will however prevent more casualties. During February and March, when the garden was at its driest, an unusual number of fires broke out, no doubt caused by unextinguished cigarette and match ends being carelessly thrown down by visitors on the very dry fallen leaves and herbage. One of the fires damaged several of the Debdar trees in the King Avenue, otherwise they were got safely under.

The roads in the garden generally are not in a very satisfactory condition from causes referred to in previous reports. Considerably more expenditure than the garden finances at present permit would be necessary to make the roads permanently fit to withstand the motor traffic that taxes them so heavily in these days.

During the year a length of over 370 feet of the river bank was revetted with bricks and concrete, bringing the total length so far embanked up to nearly a thousand feet west of the landing stage. Almost as much still remains to be done to complete the scheme of protection. The landing stage and pontoons were overhauled and repaired by the Public Works Department.

The contents of all the plant houses in the public part of the garden were overhauled during the rains and replanting done where necessary. Some thirty plants were planted out in the open, the majority of them being Indian species hitherto unrepresented in the garden.

The development of the economic garden remains in abeyance, owing to the paucity of staff.

The display of cold weather annuals and of orchids was about equal to the average of past years.

2. Plant and Seed Exchange.—Nearly 42,000 plants were distributed, of which over 15,000 were trees for roadside and other planting, and nearly 18,000 were shrubs sent out to Government Institutions, District Boards and Municipalities. The balance was made up of climbers, ferns and surplus annuals. Out of the total, over 31,000 were distributed within Bengal.

Over 1,500 plants were received, chiefly orchids. Over 300 packets and nearly 400 pounds of seeds were distributed, including over 300 pounds for the new capital at Delhi. About 160 packets of seeds were received, also two barrels of mahogany seed from Kew and a large quantity of palm seed from Mr. R. S. Lister of Pashók Tea Estate. The range of distribution of the seeds sent out was, as usual, practically worldwide.

3. Herbarium and Library.—Owing to the absence on leave of the permanent Curator for the greater part of the year, the effective scientific staff consisted only of two officers, Messrs. Debburman and Narayanswami, of the Botanical Survey Department. Over 2,000 specimens were added to the collection and nearly 8,000 sheets from previous collections were incorporated in the cabinets. The chief contributions were Malayan plants from the Botanic Gardens, Singapore, South Indian from Mr. C. E. C. Fischer, I.F.S., and Dr. Annandale, Director of the Zoological Survey of India, Western Indian from Mr. Bhalerao and Mr. Saxton, Burmese from Mr. A. Rodger, I.F.S.

Over 5,000 specimens were distributed mostly on loan to various botanists to assist in their researches.

4. Publications.—Distribution of Part II of Vol. XII of the Annals of the garden was begun during the latter half of the year and is now in progress.

5. Financial.—The revenue amounted to Rs. 4,811, mostly from rent of the foreshore for timber storage. There was a saving of Rs. 12,201 on the total allotment of Rs. 1,37,921, partly on establishment, partly on contingencies.

6. Staff.—The Superintendent and the Curator of the garden were in charge of their respective posts throughout the year. Mr. C. C. Calder was Curator of the Herbarium up to the 25th June 1921, when he went on leave, Mr. P. M. Debburman thereafter officiating to the end of the year. The duties of the Assistant Curator of the garden were performed in succession by Messrs. N. Mitra, A. Braybon, L. G. Richards and W. V. North. Mr. M. Jones was Overseer throughout the year and Mr. S. N. Basu from the 1st February 1922.

The two senior members of the clerical staff retired during the year, Babu D. N. Basu, the Head Clerk, on the 24th December 1921 after almost 44 years' service and Babu B. P. Banerjee, Second Clerk and from the 25th Dec-

ember Head Clerk, on the 11th February, after almost 39 years' service. Both officers have been faithful and willing servants of Government throughout their time. Babu S. K. Mitra was appointed Head Clerk from the 12th February 1922. All officers and the clerical staff have performed their duties satisfactorily.

CALCUTTA GARDENS.

Work in these gardens was conducted on the usual lines throughout the year. In addition the garden staff gave considerable assistance in laying out and planting the flower beds around the Victoria Memorial and in furnishing ornamental plants on the occasion of the visit of His Royal Highness the Prince of Wales. In the Dalhousie Square garden His Royal Highness was presented with an address by the Corporation of Calcutta on his arrival in the city.

The Assistant Curatorship of the Calcutta gardens, which has been vacant for several years, was filled by the appointment of Mr. N. Mitra on the 1st February 1922, Mr. S. N. Basu having officiated up to that date. The revenue was only Rs. 78, derived from fishing permits for the Dalhousie Square tank. The allotment of Rs. 34,082 was practically all expended.

LLYOD BOTANIC GARDEN, DARJEELING.

The drought which injuriously affected the gardens in the plains was no less pronounced in the hills and a considerable number of plants in the Lloyd Botanic Garden have been lost. The general appearance of the garden however has not suffered materially. During the year over 1,000 plants, over 2,200 seedlings, over 430 tubers and over 180 packets of seed were distributed. The number of visitors was almost 50,000. The allotment of Rs. 13,646 was expended in full.

Mr. W. V. North officiated as Curator until the return from leave of Mr. G. H. Cave, the permanent incumbent, on the 20th March 1922.

A. T. GAGE, LIEUT.-COL., I.M.S.,

Superintendent.

NOTIFICATION.

No. 8632Cin.—The 18th September 1922.—The following is published for general information.

M. C. MOALPIN,
Secretary to the Government of Bengal.

SIXTIETH ANNUAL REPORT
OF THE
GOVERNMENT CINCHONA PLANTATIONS AND FACTORY IN BENGAL
FOR THE YEAR
1921-22.

1. **General.**—The last six months of the year under review were characterised by great drought. From the end of September 1921 to the end of March 1922 only 2·86 inches of rain fell on Mungpoo plantation and scarcely any on Munsong, with the result that almost every stream had run dry before the end of the financial year and great difficulty was experienced in supplying water to the nurseries, gangs of coolies having to be employed to carry water from a distance. The factory had to cease working early in March from lack of water to drive the turbines and later on even the supply to the laboratory failed. On Munsong, where the normal rainfall is considerably less than on Mungpoo, the drought played havoc with the young plants planted out last year, and extensions there were under the circumstances out of the question.

On Mungpoo Mr. Osborne, the Manager, experimented with green manures and various species of shade plants, but definite conclusions cannot yet be formulated. An attempt was also made on a small scale to plant in the autumn, before the end of the rains, seedlings that had been sufficiently developed during the rains by transplanting from seed beds at once into field nurseries with the seedlings 4 inches by 4 inches apart. The extraordinary drought that followed of course completely annulled the experiment. The boring beetle and *Helopeltis* pests gave considerable trouble, but were countered by burning the affected wood, after denuding it of bark, in the one case, and by clean cultivation combined with handpicking in the other. The percentage of quinine in plantation bark continues to rise, especially in the Ledger bark. In actual factory working Mungpoo Ledger has, on the year's harvest, yielded an average of 5·53 per cent. of quinine sulphate. As the average yield of the Java bark worked up during the year on behalf of the Government of India is 5·73 per cent. Mungpoo Ledger lags little behind such Java bark. The average yield of Munsong Ledger was 4·86 of quinine sulphate. This at first sight compares unfavourably with the Mungpoo percentage, but it has to be borne in mind that the Munsong bark, being entirely from "coppiced" blocks, contains none of the richer root bark which is contained in the Mungpoo harvest. The mixture of root, stem and branch bark derived from a considerable number of trees uprooted, for purposes of block valuation, from 5 to 6 years old blocks, on Munsong, have yielded from 5 to 6 per cent. of quinine. There is therefore good reason to suppose that, when the coppiced areas are again harvested and the root bark then collected, the Munsong percentage will approximate to that of Mungpoo.

The quinine percentage of the hybrid bark of *Cinchona Ledgeriana* X *succirubra* varies from 3·81 to 3·91. This is a decided increase over the average percentage yielded in past years, but is still inferior to the Ledger yield. The hybrid has, so far, despite continuous seed selection for over the last dozen years, failed to respond to the degree hoped for as regards improvement in quinine percentage. To a certain extent it makes up for this by its more robust habit and somewhat greater yield of bark. Being a more robust plant than *C. Ledgeriana*, it can be cultivated in parts of the

plantations where pure Ledger would not be likely to hold out, and to that extent the hybrid is worth keeping in cultivation. The total acreage under the hybrid is about a ninth of the total acreage under Cinchona. In this connexion it may be of interest to note that on the Dutch Government plantations in Java this hybrid forms only about one-fortieth of the total number of cinchona trees in cultivation.

The general quinine situation is still controlled by the Dutch Combine. Although at the end of 1921 the wholesale rate fell from the equivalent of Rs. 48 to Rs. 36 per pound, it is still thrice the immediate pre-war rate. One result of the relatively high price of quinine has been to direct attention in various parts of the world to the possibility of introducing the cultivation of Cinchona. Applications for seed and information as to conditions and methods of cultivation have been received from such widely separated places as Kashmir, Rhodesia, Nyasaland and New Guinea, and seed and information have been supplied. Another result has been a great increase in the consumption of cinchona febrifuge. From 1875 to 1887 this was the sole product manufactured, reaching its greatest output in 1881-82, when nearly 11,000 lbs. were issued. Although the two Commissions appointed by Government in the sixties, of last century to investigate the therapeutic values of the cinchona derivatives had concluded that cinchona febrifuge, which was then a mixture of the alkaloids of *Cinchona succirubra*, gave as good results as quinine in the treatment of malaria and had then the advantage of being vastly cheaper than quinine, yet popular opinion and the medical profession generally began latterly to entertain a prejudice against it or at least a preference for quinine. Quinine was also favoured by the steady fall in its price from over Rs. 160 in the seventies of last century to Rs. 8 per lb. in 1910, and by 1912-13 sales of cinchona febrifuge had fallen to almost 1,600 lbs. The Cinchona Department had to adjust itself to this change by cultivating less and less of *C. succirubra*, the source of the original cinchona febrifuge, and more and more of *C. Ledgeriana*, the quinine-yielding species. From 1903 the small demand that still existed for cinchona febrifuge was met by utilising the residue of mixed alkaloids, including a proportion of quinine, left after the extraction of quinine from *C. Ledgeriana*. A small acreage of *C. succirubra*, at present amounting almost to 90 acres, has however all along been kept in cultivation, so as to ensure the possibility of its cultivation being extended when the merits of its mixed alkaloids were rediscovered by the medical profession in general.

A good few years ago, when the relative merits of cinchona febrifuge and quinine were under discussion by the Government of India, the writer of this report advocated the extension of *Cinchona succirubra* as a source of an increased supply of cinchona febrifuge, not to supplant but to supplement the supply of quinine. The prejudice or preference already mentioned, however, was still too strong and no encouragement was forthcoming. There is now reason to suppose that the advocacy would meet with support, for the researches of Major H. W. Acton, I.M.S., into the chemistry and therapeutics of the cinchona derivatives go to show that in the milder attacks of malaria constituting a large proportion of cases, cinchona febrifuge is as efficacious as, if not more so than, quinine and confirm, on a much broader basis of investigation the views held on purely clinical experience by distinguished officers of the Indian Medical Service in the sixties and seventies of the last century. The average annual sale of cinchona febrifuge for the last five years is almost 14,190 lbs. or eight times as much as in 1912-13, and much in excess of the maximum ever issued when it was the sole factory product. It is impossible for the Cinchona Department to meet this demand merely by the by-products of the manufacture of quinine from *Cinchona Ledgeriana*. If the demand continues at the present rate or increases, it would be necessary to extend the cultivation of *C. succirubra*. This extension the Cinchona Department is prepared to undertake if the medical profession is likely to return to the use of cinchona febrifuge on a fairly extensive scale. It should however be remembered that Cinchona is not an annual crop and that the Cinchona Department does not possess a magic wand to wave over a few

hundred acres of land and make a forest of red bark trees spring up instantaneously.

2. **Extensions, Acreages and Crops.**—(1) *Mungpoo*.—Rainfall, confined to the first half of the year, was 113.38 inches. Extensions were 70 acres of *C. Ledgeriana*. The harvest was got by cutting out 29.5 acres (26.8 *C. Ledgeriana*, 2 *C. Ledger* × *succirubra*, 0.7 *C. succirubra*) and amounted to 180,502 lbs. The average age of the acreage cut out was 7 years, so that the total average yield per acre over that period is 6,118 lbs. This is the highest yield ever given by the Bengal plantations and considerably exceeds the highest estimate so far entertained for a period of even 10 years. At the end of March 1922 there were 851 acres with a full complement of Cinchona. Near Rungbee 60 acres that had been cleared of Cinchona were planted with mixed fuel and timber trees.

(b) *Munsong*.—Rainfall was only 85.83 inches, almost entirely confined to the first half of the year. Owing to the abnormal conditions already mentioned extensions were held in abeyance and work concentrated on filling in the large number of vacancies caused by the drought in the previous year's planting. The harvest was got by coppicing 261 acres and amounted to 394,560 lbs. of which 304,560 lbs. were *C. Ledgeriana*. The average age of the acreage cut out was 7 years, and the average yield per acre in terms of completely cut out acreages was 2,650 lbs. At the end of the year the total acreage under a full complement of Cinchona was 2,277 acres. About 48 acres of cleared land were planted with fuel and timber trees.

(c) **Plantations as a whole.**—The total area under cinchona is 3,128 acres, of which about two-thirds are under six years of age.

3. **Factory work.**—The factory used up 510,160 lbs. of bark (233,914 of *Mungpoo* and 276,246 of *Munsong*) and produced 22,713 lbs. quinine sulphate, 6,712 lbs. cinchona febrifuge, 17½ lbs. quinine hydrochloride and 4 lbs. cinchonidine sulphate or a total of 29,446½ lbs. In addition it produced from the Java bark purchased by the Government of India 21,541 lbs. quinine sulphate and 5,976 lbs. cinchona febrifuge. The total production of quinine sulphate, both provincial and imperial, was 44,254 lbs. and total products from all sources 56,963½ lbs. The yield of quinine sulphate is about equal to 91 per cent. of the bark contents as determined by analysis.

4. **Cost and value of plantation bark.**—The *Mungpoo* harvest of 180,502 lbs. at 3.6 annas per lb. cost Rs. 40,613. Its value on its average quinine percentage of 5.4 and a unit rate of 1.5 anna is Rs. 91,379. In other words, the value of the produce of 29½ acres cut out more than covers the entire expenditure during the year on the whole plantation of 851 acres of cinchona and over 3,000 acres of afforested land. The *Munsong* harvest of 394,560 lbs. at 2.7 annas per lb. cost Rs. 66,582. Its value on its average quinine percentage of 4.74 and unit rate as above is Rs. 1,75,332 which much more than covers the year's expenditure on the whole plantation. The total cost of the harvest was Rs. 1,07,195 and its value Rs. 2,66,711.

5. **Cost and value of quinine produced.**—(a) **Cost in the bark.**—The 22,713 lbs. of quinine extracted were contained in 510,160 lbs. of mixed *Mungpoo* and *Munsong* barks, which cost (233,914 lbs. at 3.6 annas and 276,246 at 2.7 annas per lb.) Rs. 99,247. The cost per lb. of quinine in the bark was therefore Rs. 4.36.

(b) **Cost of extraction, packing and delivery to railway.**—The gross charges are the total direct expenditure on the factory (Appendix D) plus its share of the general charges and depreciation for machinery and buildings, in all Rs. 1,23,689-8. From this have to be deducted Rs. 40,352-11, made up of Rs. 25,376, the cost of extracting 12,688 lbs. of cinchona febrifuge, both provincial and imperial, at Rs. 2 per lb. and Rs. 14,976-11, the cost of chemicals, oil and stores purchased during the year but not used up. Net charges are therefore Rs. 83,336-13, which cover the extraction of 44,254 lbs. of quinine, both provincial and imperial. The extraction rate is therefore rather less than, but taken at, Rs. 2 per lb. This is a big drop from Rs. 3.56, the cost last year, and is due to the much larger output of quinine in 1921-22.

(c) **Total cost per lb. and value.**—Total cost is Rs. 4.36 plus Rs. 2 or Rs. 6.36 per lb. At Rs. 36, the present wholesale rate, the 22,713 lbs. of provincial quinine manufactured is worth Rs. 8,17,668, but cost only Rs. 1,44,454.

6. **Sales and selling rates.**—The sales are shown in tabular form in Appendix G. In that table the total quantity of quinine does not include 37 lbs. issued direct from the factory to the plantation dispensaries and as samples. On the other hand, the quantity of cinchona febrifuge, 13,188 lbs. 8 oz. includes, in addition to the total output of the factory from provincial bark, 5,376½ lbs. extracted from Government of India bark and 1,100 lbs. purchased by the Public Health Department direct from the Madras Cinchona Department. Rates were for quinine Rs. 48 to Rs. 50 per lb. for the first eleven months of the year, thereafter Rs. 36 to Rs. 38 per lb. For cinchona febrifuge the rates were respectively Rs. 10 to Rs. 12 and Rs. 8 to Rs. 10 per lb. for the same periods. Quinine in tablet form was sold at the rate of Rs. 43½ per lb.

7. **Expenditure and receipts.**—The total expenditure on the department was Rs. 3,33,514-3. The total receipts, including Rs. 179-12 received direct, were Rs. 15,40,613-2-8, of which Rs. 5,88,848-8 were credit and Rs. 9,51,764-10-8 cash. Of the latter Rs. 2,60,244-7-6, being half the sum realised from the sale of quinine treatments, were credited to the Prisons Department, in accordance with the orders issued in 1918, to meet the charges incurred by the Prisons Department in connexion with the conversion of purified quinine into treatments and the distribution of the latter. In 1918-19 the Prisons Department was credited with Rs. 1,65,180-2 to meet charges in connexion with the conversion and distribution of 12,77½ lbs. 14 oz. purified quinine, which works out at almost Rs. 13 per lb. as against Rs. 6·85, the then cost of manufacture per lb. of the purified quinine. For 1921-22 the Prisons Department has been credited with Rs. 2,60,244-7-6 to meet charges in connexion with the conversion and distribution of 11,042 lbs. of pure quinine, which works out at Rs. 23½ per lb. as against Rs. 6·36 per lb. for manufacture of the same, including packing and distribution to the railway. Deducting this amount and crediting the Cinchona Department only with that proportion of the total receipts shown in Appendix B as receipts for the sale of cinchona febrifuge corresponding to the total amount manufactured during the year the net receipts come out at Rs. 12,15,609-7-2 and the surplus at Rs. 8,12,095-4-2.

8. **Quinine reserve and stock account.**—The reserve had sunk at the end of the year to 28,538 lbs. 6 oz. In the stock account the mistake of including in the provincial stock cinchona febrifuge belonging to the Government of India, which originated with the closing balance of stock of this drug in the report for 1919-20, has been corrected. The total value of stock at the end of the year was Rs. 9,70,441-10-5, of which quinine worth at least Rs. 8,56,151-4 was the chief item.

9. **Block account.**—The cinchona trees were revalued at a rate lower by 25 per cent. than last year's rate to correspond with the reduction in the price of quinine. This has more than counterbalanced the bark increment of the year, so that the plantations are taken at last year's value less Rs. 74,894. See Appendix F for details.

10. **Profit and loss valuation.**—This is shown in Appendix E. There is a valuation profit balance of Rs. 5,13,691-0-3.

11. **Land rent.**—The rent collected from settlers on 'Mungpoo was Rs. 5,062-14 paid into the Darjeeling Treasury. The grazing fees collected on Munsong were Rs. 952-5-6 paid into the Kalimpong Sub-Treasury to the credit of the Forest Department.

12. **Staff.**—For the first time for a good number of years the staff of the department from near the end of the year has been almost at full strength. It would take up too much space to enumerate the entire staff and the various internal changes in postings. Sufficient to state that all the executive officers of both factory and plantations have worked with their customary praiseworthy goodwill and energy to which the prosperous condition of the department bears witness.

13. **Medicinal plants other than Cinchona.**—The number of *Ipecacuanha* plants has now increased to almost 113,000. It is proposed to begin the experimental extraction of Emetine during the coming year. The crop of *Digitalis* was 1,200 lbs. of dry leaf.

DEPARTMENT OF AGRICULTURE, BENGAL.

Preliminary Forecast of the Bhadoi Crops of Bengal, 1922-23.

[NOTE.—On an average of the five years ending 1920-21, the area under autumn rice in Bengal has represented some 6·4 per cent. of the total area under rice in British India.]

Character of the Season.—The long spell of drought, which prevailed from November last year to end of May this year, was unfavourable for preparatory tillage and for the sowing of the crops. As a result, the area under these crops has been much reduced especially in the eastern districts. The rainfall in April and May, though greatly defective, somewhat improved the situation and sowings proceeded briskly towards the end of May. The rainfall in June, was generally beneficial to the growth of the crops. In July, the rainfall was moderate except in North Bengal where the fall was generally heavy towards the latter part of the month. Consequently the rise of the rivers caused some damage to the ripe autumn paddy in lowlying tracts in East and North Bengal. The August rainfall was a little defective in North Bengal but was markedly in excess in the western, and less so in the eastern districts. Considerable damage has thus been caused to the low land crops by floods in certain districts of West Bengal, Midnapore, Bankura, Howrah, and Hooghly being the worst sufferers. On the whole, a fair crop is expected on the low lands and a satisfactory one on the high lands.

Acreage.—The total area sown with the different *bhadoi* crops this year is reported to be 5,932,800 acres as against 6,393,500 acres and 6,477,000 acres respectively in the corresponding and final forecasts of last year. Of this, the area under autumn rice is estimated at 5,126,700 acres as against 5,542,200 and 5,607,300 acres respectively in the corresponding and final forecasts of last year.

Outturn.—According to the District Officers' estimates, the outturn of the different *bhadoi* crops for the Province works out at 76 per cent. of the normal as against 81 and 85 per cent reported, respectively, in the corresponding and final forecasts of last year. Autumn rice, the most important of the *bhadoi* crops, yields an outturn of 76 per cent. of the normal for the Province this year as against 81 and 85 per cent. in the corresponding and final forecasts of last year.

G. EVANS,

Director of Agriculture, Bengal.

CAMP SURI, the 16th September 1922.

APPENDIX E.

Preliminary Forecast of the Bhadal Crops of Bengal, 1922-23.

District.	Names of crops.	Estimated normal area under each crop.	Estimated area under each crop.		Estimated outturn as a percentage of the normal yield per unit of area.		Date by which the sowing of each crop was begun this year, and whether that date was early, normal or late.	Remarks by District Officers.
			Last year.	This year.	Last year.	This year.		
24-PARGANAS.	Bhadal paddy (autumn rice).	Acres. 73,400	Acres. 49,000	47,400	76	76		
	Indian-corn (maize) ...	...	100	100	76	67		
	Other bhadal cereals ...	3,600	1,400	1,000	76	67		
	Other bhadal pulses ...	1,300	2,500	3,200	67	76	End of May to end of June. Late.	The weather has not been favourable. The outturn is expected to fall much below the normal for want of rain in the beginning and excessive rain afterwards causing damage to the extent of 38 per cent. in Basirhat and 47 per cent. in Diamond Harbour subdivisions.
	Bhadal fruits and vegetables, including root-crops.	3,600	1,400	1,400	88	88		
	Other bhadal food crops.	100	800	3,100	80	58		
	Bhadal non-food crops other than fodder and fibres.	...	...	...	...	...
	Total ...	64,000	55,500	55,800	74	74		
NADIA.	Bhadal paddy (autumn rice).	491,100	475,800	470,000	83	83		
	Bajra ...	...	100	100	67	67		
	Mandua, marua or ragi	100	200	800	88	88		
	Indian-corn (maize) ...	800	100	100	58	58		
	Other bhadal cereals ...	5,000	5,500	5,300	58	58		
	Other bhadal pulses ...	1,000	7,800	6,100	33	33		
	Bhadal fruits and vegetables, including root-crops.	6,400	1,700	1,800	58	58	Latter part of April to June. Late.	The decrease in area is due to want of rain at sowing time. Since the sowing till the end of May the weather conditions were quite unfavourable for germination and growth. From June, however, the conditions became favourable but owing to flood which has caused some damage, the weather again became unfavourable in the Kumbha and Meherpur subdivisions.
	Other bhadal food-crops	5,800	2,300	2,100	50	50		
	Bhadal fodder crops other than jowar, bajra, marua and maize.	1,800	4,500	4,100	50	50		
	Bhadal fibres other than jute.	...	700	100	67	41		
	Mulberry ...	(80)	...	...	...	...
	Bhadal non-food crops other than fodder and fibres.	8,900	14,500	14,000	58	50		
	Total ...	522,900	513,000	503,000	81	87		
MURSHIDABAD.	Bhadal paddy (autumn rice).	279,700	179,800	167,300	58	58		
	Jowar ...	100	100	100	76	80		
	Bajra ...	800	100	(4)	76	76		
	Mandua, marua or ragi	900	400	400	80	80		
	Indian-corn (maize) ...	1,000	800	800	67	67		
	Other bhadal cereals ...	3,500	2,400	2,300	67	66		
	Other bhadal pulses ...	2,000	1,700	1,700	67	80		
	Indigo ...	...	2,800	2,200	83	83		
	Bhadal fruits and vegetables, including root-crops.	5,000	1,400	2,300	67	56	May to June. Late.	The decrease in area is due to drought at sowing time. The late but continuous shower of rain impeded the sowing operation and subsequent heavy rain was not beneficial to the growth of the crops and also retarded weeding. The damage caused by excessive rain and flood is estimated at about 42 per cent.
	Other bhadal food-crops	5,000	2,500	2,500	67	80		
	Bhadal fodder-crops other than jowar, bajra, marua and maize.	2,800	2,300	2,500	67	86		
	Bhadal fibres other than jute.	400	900	800	67	67		
	Mulberry ...	4,000	3,700	3,800	76	67		
	Bhadal non-food crops other than fodder and fibres.	20,000	8,800	4,100	58	56		
	Total ...	271,300	203,800	190,400	68	68		

District.	Names of crops.	Estimated normal area under each crop.	Estimated area under each crop.		Estimated outturn as a percentage of the normal yield per unit of area.		Date by which the sowing of each crop was begun this year, and whether that date was early, normal or late.	Remarks by District Officers.
			Last year.	This year.	Last year.	This year.		
JESORE.		Acres.	Acres.	Acres.				
	Bhadol paddy (autumn rice).	407,800	351,700	293,900	83	67		The decrease in area is due to want of timely rain during the sowing season. The weather was not favourable at sowing time. The outturn is estimated to be below the normal owing to damage caused by drought at the beginning and by heavy rain subsequently, especially in the Magura, Narail and Jhenidah subdivisions.
	Other bhadol cereals ...	12,300	10,700	8,900	75	68		
	Other bhadol pulses ...	12,300	7,300	5,400	67	58	April and May. Late.	
	Other bhadol food-crops.	1,900	800	600	67	67		
	Bhadol fodder crops other than jawar, bajra, marua and maize.	12,100	800	600	83	66		
	Bhadol non-food crops other than fodder and fibres.							
	Total ...	448,000	371,000	296,200	83	67		
KOLNA.	Bhadol paddy (autumn rice).	17,800	28,800	18,000	93	93	End of May. Late.	The decrease in area is due to want of rain at sowing time. The weather was dry at sowing time but is somewhat favourable at present. Some damage was done by prolonged drought at the beginning and by excessive rain later on.
	Other bhadol cereals ...	200	100	100	100	100		
	Other bhadol pulses ...	600	600	300	100	53	Middle of June. Late.	
	Bhadol fruits and vegetables, including root-crops.	14,800	11,700	8,400	82	67		
	Bhadol non-food crops other than fodder and fibres.	200	100	...	83	...		
	Total ...	33,700	35,700	26,800	93	84		
MURDWAN.	Bhadol paddy (autumn rice).	140,000	88,700	79,400	88	106		The decrease in area is due to prolonged drought at sowing time. The unusually early start of the monsoon and subsequently continuous rainfall caused the ploughing and sowing late. A good outturn is expected on account of the copious and continuous rainfall after sowing.
	Mandua, marua or ragi.	...	...	...	...	...
	Indian corn (maize) ...	3,000	1,800	1,000	83	100		
	Other bhadol cereals ...	1,000	600	600	83	83		
	Other bhadol pulses ...	1,200	1,300	1,300	83	83		
	Bhadol fruits and vegetables, including root-crops.	2,000	2,600	2,300	83	83		
	Other bhadol food-crops	1,700	900	900	83	83		
	Bhadol fodder-crops other than jawar, bajra, marua and maize.	200	300	100	83	83		
	Bhadol fibres other than jute.	6,000	6,100	6,100	83	93		
	Bhadol non-food crops other than fodder and fibres.	4,000	2,800	2,800	75	83		
	Total ...	160,200	99,700	98,100	88	103		
BURDHUM.	Bhadol paddy (autumn rice).	11,300	110,000	111,000	67	93		The weather has been fairly favourable. The outturn is below the normal owing to heavy rainfall.
	Indian corn (maize) ...	10	1,300	1,400	67	78		
	Other bhadol cereals ...		300	300	67	73		
	Bhadol fruits and vegetables, including root-crops.	10,000	7,080	6,000	67	78	End of June	
	Mulberry ...	1,000	100	300	67	67		
	Bhadol non-food crops other than fodder and fibres.	3,800	3,800	3,800	63	63		
	Total ...	139,800	122,200	122,200	67	90		

District.	Names of crops.	Estimated normal area under each crop.	Estimated area under each crop.		Estimated outturn as a percentage of the normal yield per unit of area.		Date by which the sowing of each crop was begun this year, and whether that date was early, normal or late.	Remarks by District Officers.
			Last year.	This year.	Last year.	This year.		
BANGALORE.	Bhadai paddy (autumn rice).	21,000*	12,000	9,600	87	87		
	Jowar ... ..	...	100	1,300	83	87		
	Bajra	800*	600	900	83	87		
	Mandua, marua or ragi	1,100*	300	800	83	87		
	Indian corn (maize) ...	8,400*	6,300	6,700	83	83		
	Other bhadai cereals ...	2,000*	1,500	4,700	93	87		
	Other bhadai pulses ...	2,000*	26,000	2,500	83	87		
	Bhadai fruits and veg. tables, including root-crops.	2,000*	2,500	3,500	83	87	Middle of June. Normal.	The weather has not been favourable. The outturn is expected to be much below the normal owing to late sowing and to damage caused by heavy rainfall.
	Other bhadai food-crops	2,700*	800	1,100	83	87		
	Bhadai fodder crops other than jowar, bajra, marua and maize.	...	...	300	...	83		
	Bhadai fibres other than jute.	800	800	800	83	7		
	Mulberry ... ..	...	...	(30)	...	83		
	Bhadai non-food crops other than fodder and fibres.	1,300*	1,600	800	83			
	Total ...	42,900*	53,800	32,000	76			
MIDNAPUR.	Bhadai paddy (autumn rice).	265,400	275,000	175,000				
	Jowar	800	400	400				
	Bajra	1,300	600	600				
	Indian corn (maize) ...	8,000	8,300	8,600				
	Other bhadai cereals ...	10,100	7,100	7,800				
	Other bhadai pulses ...	29,800	12,000	16,000				
	Indigo	100	...	...		
	Bhadai fruits and vegetables including root-crops.	26,000	8,700	6,000	100		June. Normal...	The decrease in area is due to drought at sowing time and subsequently to floods in the Ghatal and Bada subdivisions. The weather has not been favourable. Damage caused by drought and flood is about 17 per cent.
	Other bhadai food-crops.	7,400	6,000	4,100				
	Bhadai fodder crops other than jowar, bajra, marua and maize.	500	400	400				
	Bhadai fibres other than jute.	1,100	900	900				
	Mulberry	400	300	100				
	Bhadai non-food crops other than fodder and fibres.	400	1,400	800				
	Total ...	290,700	219,000	213,700	100	83		
HOOGLY.	Bhadai paddy (autumn rice).	24,700*	24,400	23,100	92	83		
	Marua	200	...	...	...	...
	Indian corn (maize) ...	200	100	100	117	117		
	Other bhadai cereals ...	...	500	400	92	92		
	Other bhadai pulses ...	2,300*	800	300	75	100		
	Bhadai fruits and vegetables, including root crops.	2,500*	2,500	2,100	83	83		
	Other bhadai food-crops	1,700	300	100	100	100	End of May and June. Late.	The decrease in area is due to want of rain so long time. The weather was not favourable for want of rain at sowing time and for excessive rain and flood afterwards. At present it is favourable. The damage caused by flood in the Arambagh subdivision is about 23 per cent. Heavy rain is also reported to have caused some damage in Baranpore subdivision.
	Bhadai fodder crops other than jowar, bajra, marua and maize.	100	100	100	100	100		
	Bhadai fibres other than jute.	100	...	...	...	...
	Mulberry	100	...	...	...	...
	Bhadai non-food crops other than fodder and fibres.	800	...	...	...	...
	Total ...	44,400	29,100	27,100	91	83		

* Revised.

District.	Names of crops.	Estimated normal area under each crop.	Estimated area under each crop.		Estimated outturn at a percentage of the normal yield per unit of area.		Date by which the sowing of each crop was begun this year, and whether that date was early, normal or late.	Remarks by District Officers.
			Last year.	This year.	Last year.	This year.		
HOWRAH.	Rhodes paddy (autumn rice.)	Acres. 8,900*	Acres. 10,000	Acres. 8,500	100	87	Middle of May. Normal.	The decrease in area is due to unfavourable weather. The weather has not been favourable. The outturn is below the normal owing to excessive rain and flood which have damaged about three-fourths of the crop.
	Indian corn (maize) ...	100*	200	100	100	87		
	Other Rhodes cereals ...	1,000*	900	800	100	88		
	Other Rhodes pulses ...							
	Rhodes fruits and vegetables, including root-crops.	5,600*	5,400	4,100	100	43		
	Other Rhodes food-crops	1,800*	1,200	1,000	100	43		
	Rhodes fibres other than jute.	...	200	100	100	33		
	Total ...	16,800	17,900	14,900	100	89		
BARSANUL.	Rhodes paddy (autumn rice.)	168,100	175,700	171,100	83	83	Middle of April to middle of May.	The decrease in area is due to want of rain at sowing time. Want of rain retarded the growth of the crops. The weather has subsequently been favourable. Damage to the extent of two annas is reported from Nator and Naogaon subdivisions.
	Indian corn (maize) ...	800	700	700	75	75		
	Other Rhodes cereals ...	1,600	1,500	1,800	67	67		
	Other Rhodes pulses ...	900	100	100	67	67		
	Rhodes fruits and vegetables, including root-crops.	10,300	7,700	7,700	58	58		
	Other Rhodes food-crops.	3,200	1,800	1,800	67	67		
	Rhodes fibres other than jute.	...	100	100	58	58		
	Mulberry ...	800	300	300	75	75		
	Rhodes non-food crops other than fodder and fibres.	300	400	400	75	75		
	Total ...	185,400	188,600	184,000	83	89		
DINAJPUR.	Rhodes paddy (autumn rice.)	150,700	203,900	149,300	86	75	Middle of May	The decrease in area is due to drought at sowing time. The weather has not been favourable. The sowing was rather late and the crops have not grown well. Some damage has been done by flood. Hence the outturn is expected to fall much below the normal.
	Jowar ...	1,200	1,600	1,000	62	64		
	Bajra ...	100	200	200	71	40		
	Mandua, marua or ragi.	...	100	100	75	38		
	Indian corn (maize) ...	1,000	900	800	83	41		
	Other Rhodes cereals ...	600	400	200	50	30		
	Other Rhodes pulses ...	800	600	600	75	80		
	Rhodes fruits and vegetables, including root-crops.	100	1,300	400	54	50		
	Other Rhodes food-crops	1	900	(40)	70	34		
	Rhodes fodder-crops other than jowar, bajra, marua and maize.	...	400	100	61	30		
	Rhodes non-food crops other than fodder and fibres.	300	...	700	30	79		
	Total ...	137,000	...	163,000	86	75		

District.	Names of crops.	Estimated normal area under each crop.	Estimated area under each crop.		Estimated output as a percentage of the normal yield per unit of area.		Date by which the sowing of each crop was begun this year and whether that date was early, normal or late.	Remarks by District Officers.
			Last year.	This year.	Last year.	This year.		
JALPAIGURI.		Acres.	Acres.	Acres.				
	Bhadol paddy (autumn rice.)	166,700	187,700	146,800	78	100		
	Indian-corn (maize) ...	3,000	3,800	3,100	67	92		
	Other bhadol cereals ...	1,000	800	200	83	83	April. Normal.	The increase in area is due to seasonable weather. The weather has been favourable. A little damage was done by heavy rain to the crops other than rice.
	Other bhadol pulses ...	1,800	1,400	1,800	78	83		
	Bhadol fruits and vegetables, including root-crops.	18,800	9,400	10,800	78	78		
	Bhadol fibres other than jute.	100	100	100	67	67		
	Total ...	187,100	181,900	161,400	78	98		
DARJEELING.	Bhadol paddy (autumn rice.)	7,200	3,700	3,700	88	88		
	Mandua, marua or ragi	3,400*	3,600	3,400	75	92		
	Indian corn (maize) ...	47,200*	48,700	47,200	100	83		
	Other bhadol cereals ...	3,400*	100	100	67	83		
	Other bhadol pulses ...		1,600	1,600	108	100		
	Bhadol fruits and vegetables, including root-crops.	1,900*	600	1,900	67	88		The weather has been fairly favourable.
	Other bhadol food-crops	5,200	4,400	4,400	92	88		
	Bhadol fodder-crops, other than jowar, bajra, marua and maize.	...	100	100	67	92		
	Tea ...	52,000	59,400	59,400	100	100		
	Other bhadol non-food crops other than fodder and fibres.	3,100*	800	1,000	33	50		
	Total ...	127,400	122,700	122,800	98	91		
RANGPUR.	Bhadol paddy (autumn rice.)	282,800	281,400	261,200	94	90		
	Jowar ...	200	300	200	100	100	March. Normal.	The weather has been favourable. Some damage was done by drought at the beginning.
	Indian corn (maize) ...	100	100	100	78	100		
	Other bhadol cereals ...	20,000	8,800	6,000	90	90		
	Other bhadol pulses ...						April. Normal.	
	Bhadol fruits and vegetables, including root-crops.	10,800	4,100	4,100	80	80		
	Other bhadol food-crops	18,000	800	1,000	80	80	August. No	
	Bhadol non-food crops other than fodder and fibres.	40,000	20,000	23,000	80	80		
	Total ...	280,800	262,600	232,700	92	90		

District.	Names of crops.	Estimated normal area under each crop.	Estimated area under each crop.		Estimated outturn as percentage of the normal yield per unit of area.		Date by which the sowing of each crop was begun this year, and whether that date was early, normal or late.	Remarks by District Officers.
			Last year.	This year.	Last year.	This year.		
BOGRA.	Bhadol paddy (autumn rice).	140,000	138,000	140,000	100	100		The weather has on the whole been favourable to the growth of the crops.
	Jowar ... ..	...	100	100	100	100	
	Bajra ... ..	...	(10)	(10)	80	85	
	Mandua, marna or ragi ...	...	(80)	(20)	100	100	
	Indian corn (maize) ...	...	2,000	2,090	50	60	
	Other bhadol cereals ...	2,500	1,800	1,800	50	70		
	Other bhadol pulses ...	...	500	500	50	75	
	Bhadol fruits and vegetables including root-crops.	2,000	200	500	100	80		
	Other bhadol food-crops	2,000	600	600	70	80		
	Bhadol fodder-crops other than jowar, bajra, marna and maize.	...	100	100	85	70		
	Mulberry	100	(5)	(4)	80	80		
	Bhadol non-food crops other than fodder and fibres.	200	...	...	...	...
	Total ...	140,800	143,400	145,600	98	100		
	Bhadol paddy (autumn rice).	140,000	202,200	170,700	67	54		
MALDA.	Indian corn (maize)	400	...	62	38		Latter part of April. Late. The decrease in area is due to want of rain at sowing time. The weather was favourable for cultivation but want of rain after the sowing retarded the growth of the crops. The outturn is anticipated to fall much below the normal owing to damage caused by drought and the rise of the water in the Jamuna.
	Other bhadol cereals ...	8,000	6,100	2,000	54	59		
	Other bhadol pulses ...	...	100	(4)	62	58	
	Bhadol fruits and vegetables including food-crops.	...	...	...	...	...
	Other bhadol food-crops	20,000	15,500	14,700	67	58		
	Bhadol fodder-crops other than jowar, bajra, marna and maize.	2,500	500	...	67	58		
	Bhadol fibres other than jute.	...	200	...	54	59		
	Total ...	181,500	225,100	185,000	67	58		
	Bhadol paddy (autumn rice).	275,600	223,400	170,000	78	43		
	Jowar	1,800	1,200	1,100	68	54		
	Bajra	1,400	1,200	900	64	50		
	Mandua	1,600	900	400	58	31		
	Indian corn (maize) ...	20,700	17,800	9,200	83	50		
	Other bhadol cereals ...	2,200	2,200	2,800	56	48		
DACA.	Other bhadol pulses ...	100	100	100	61	76		Middle of May to July. Late. The decrease in area is due to want of rain at sowing time. The outturn is expected to fall much below the normal owing to late sowing and to damage caused by continuous heavy rain after sowing and subsequently by early flood.
	Bhadol fruits and vegetables including root-crops.	2,700	1,600	1,100	62	31		
	Other bhadol food-crops	20,000	18,900	15,000	76	57		
	Bhadol fodder-crops other than jowar, bajra, marna and maize.	2,000	2,000	2,000	68	38		
	Bhadol fibres other than jute.	7,000	2,000	1,500	80	49		
	Mulberry	6,000	12,800	12,800	99	100		
	Bhadol non-food crops other than fodder and fibres.	2,400	2,000	2,500	66	53		
	Total ...	1,500	299,200	220,400	72	47		
	Bhadol paddy (autumn rice).	700	300,500	276,500	95	78		
	Bhadol fruits and vegetables including root-crops.	100	4,100	4,100	80	80		
	Other bhadol food-crops	20	10,500	10,500	99	99		
	Bhadol fodder-crops other than jowar, bajra, marna and maize.	3	1,000	1,000	70	70		
	Total ...	270	300,000	301,800	98	79		

District.	Names of crops.	Estimated normal area under each crop.	Estimated area under each crop.		Estimated outturn as a percentage of the normal yield per unit of area.		Date by which the sowing of each crop was begun this year, and whether that date was early, normal or late.	Remarks by District Officers.
			Last year.	This year.	Last year.	This year.		
MYNENGIUM.	Bhadol paddy (autumn rice).	Acres. 390,400	Acres. 745,000	Acres. 710,300	88	80	Middle of April. Normal.	The decrease in area is due to want of timely rain. The weather has not been generally favourable. Some damage is reported to have been caused by drought in the Kishorganj subdivisions.
	Other bhadol pulses ...	100	100	...	80	...		
	Bhadol fruits and vegetables, including root-crops.	5,500	14,000	13,300	60	55		
	Other bhadol food-crops	43,900	43,900	43,900	73	73		
	Bhadol fodder crops other than jowar, bajra, munda and maize.	64,000	64,000	64,000	60	60		
	Total ...	504,100	867,000	830,300	82	78		
PARIDIPUR.	Bhadol paddy (autumn rice).	233,500	340,800	336,500	65	80	May. Late ...	The decrease in area is due to want of rain at sowing time. The weather has been unfavourable. The crops were seriously damaged by drought at the beginning and by heavy rain and sudden rise of water afterwards. Hence the outturn is much below the normal.
	Bhadol fruits and vegetables, including root-crops.	35,300	19,800	17,800	67	42		
	Other bhadol food-crops	800	600	600	66	34		
	Total ...	339,300	561,300	554,900	65	39		
BAKARGANJ.	Bhadol paddy (autumn rice).	126,000	319,000	300,000	92	75	End of May. Late ...	The decrease in area compared with last year is due to unfavourable weather at sowing time. The excessive rain in June and flood in July have caused much damage to the crops and the outturn is therefore much below the normal.
	Other bhadol pulses ...	1,000	800	...	83	...		
	Bhadol fruits and vegetables, including root-crops.	140,000	150,000	130,000	100	67		
	Bhadol non-food crops other than fodder and fibres.	1,400	1,600	1,400	89	73		
	Total ...	278,400	470,300	371,400	94	73		
CHITTAGONG.	Bhadol paddy (autumn rice).	202,000	194,600	194,600	92	92	May and June. Normal.	The weather has been fairly favourable. The outturn may be normal if nothing happens unfavourable till the time of harvesting.
	Indian-corn (maize) ...	200	200	200	92	92		
	Other bhadol pulses ...	800	200	200	100	92		
	Bhadol fruits and vegetables including root-crops.	2,400	2,300	2,500	97	92		
	Other bhadol food-crops	1,800	1,600	1,600	100	...		
	Bhadol fodder crops other than jowar, bajra, munda and maize.	6,800	4,000	4,000	100	...		
	Bhadol fibres other than jute.	200	200	200	100	100		
	Tea ...	5,000	5,400	5,400	82	83		
	Bhadol non-food crops other than fodder and fibres.	100	100	100	101	100		
	Total ...	218,900	208,900	208,900	92	92		
TIPPERA.	Bhadol paddy (autumn rice).	312,500	317,400	303,300	83	88	April. Normal.	The decrease in area is due to want of rain at sowing time. At sowing time the weather was not favourable but subsequently proved better. Excessive rain and floods also caused some damage. The outturn is therefore expected to fall below the normal.
	Other bhadol cereals ...	600	300	300	83	83		
	Other bhadol pulses ...	1,100	1,100	1,100	75	75		
	Bhadol fruits and vegetables (including root-crops).	7,800	4,400	4,500	67	67		
	Other bhadol food-crops	1,000	800	700	67	56		
	Bhadol fodder crops other than jowar, bajra, munda and maize.	9,000	8,900	8,800	67	67		
	Bhadol non-food crops other than fodder and fibres.	5,000	5,000	5,000	83	83		
	Total ...	337,700	338,000	325,900	82	83		

District.	Names of crops.	Estimated normal area under each crop.	Estimated area under each crop.		Estimated outturn as a percentage of the normal yield per unit of area.		Date by which the sowing of each crop was begun this year, and whether that date was early, normal or late.	Remarks by District Officers.
			Last year.	This year.	Last year.	This year.		
NOAHMALL.		Acres.	Acres.	Acres.				
	Bhadol paddy (autumn rice).	304,000	300,000	300,000	100	83	March to April. Normal.	The weather was not favourable at sowing time and during the period of growth. The damage caused by continuous rainfall in June and July and by insects is estimated at 17 per cent. of the normal.
	Bhadol fruits and vegetables, including root-crops.	1,000	1,000	1,000	100	83		
	Bhadol fodder-crops other than jowar, bajra, masha and maize.	3,000	3,000	3,000	100	83		
	Total ...	307,000	303,000	303,000	100	83		
CHITTAGONG HILL TRACTS.								
	Bhadol paddy (autumn rice).	168,000	168,000	168,000	92	100	Second week of April. Normal.	The weather has been favourable and a normal outturn is expected.
	Indian-corn (maize) ...	2,100	1,800	1,400	83	83		
	Other bhadol pulses ...	4,000	3,800	4,000	83	83		
	Other bhadol food-crops.	7,000	6,800	7,000	89	83		
	Total ...	201,100	177,900	180,400	91	100		
TOTAL BENGAL.								
	Bhadol paddy (autumn rice).	5,073,800	5,607,800	5,136,700	85	78		
	Jowar ...	4,100	3,800	4,300	73	67		
	Bajra ...	4,000	3,900	3,700	78	63		
	Mandua, masha or rari	6,900	5,500	5,400	78	77		
	Indian corn (maize) ...	107,400	90,400	78,300	91	78		
	Other bhadol cereals ...	130,300	104,400	76,300	81	73		
	Other bhadol pulses ...							
	Indigo ...	1,100	10,600	7,500	46	37		
	Bhadol fruits and vegetables including root-crops.	312,800	369,600	231,700	89	66		
	Other bhadol food-crops	206,100	128,300	125,400	68	73		
	Bhadol fodder-crops other than jowar, bajra, masha and maize.	96,300	91,600	91,400	84	77		
	Bhadol fibres other than jute.	18,800	11,800	9,300	77	74		
	Mulberry ...	11,900	18,200	18,300	94	93		
	Tea ...	57,000	64,600	64,800	99	99		
	Bhadol non-food crops other than fodder and fibres.	113,600	500	46,300	70	67		
	Total ...	6,141,100	6,400,000	5,800,000	85	78		

Figures for Jalpaiguri and the Chittagong Hill Tracts.

DISTRICT REPORTS ON WEATHER AND CROPS

For the week ending on the 15th September 1922.

Summary.—During the week under review rainfall was generally light to moderate. Transplantation of winter paddy and harvesting of autumn crops are nearing completion. Weeding of winter paddy is making good progress and its outlook is so far reported to be favourable. Other standing crops are also doing well. The average price of common rice for the province has fallen by about 1·748 per cent as compared with that of the previous week.

Serial No.	District and subdivision.	Rainfall.	PRICE OF COMMON RICE, IN SEKHS, PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches.			
1	24-PARGANAH ...	0·88	5½	5½	The effects of weather on the standing crops are good. Retransplantation of <i>aman</i> paddy is nearly finished. <i>Aman</i> paddy is thriving well in Barasat. Condition and prospects of jute are favourable. Fodder and water are sufficient.
	Diamond Harbour.	0·97	5½	5½	
	Barrackpore ...	0·77	5½	5½	
	Barasat ...	1·18	5	5	
	Basirhat ...	0·64	6½	6	
2	NADIA ...	0·29	6½	6½	Harvesting of <i>aus</i> paddy and jute and transplantation of <i>aman</i> paddy continue. Slight damage to jute by rain is reported from Meherpur. Prospects of <i>aman</i> paddy are favourable. Prospects of jute are fair. Fodder and water are sufficient. Cattle-disease is reported from the Sadar, Chuadanga and Ranaghat subdivisions.
	Kushtia ...	0·04	6	6	
	Meherpur ...	9·18	6½	6½	
	Chuadanga ...	0·24	6½	6½	
	Ranaghat ...	1·09	5½	5½	
3	MURSHIDABAD	0·99	7	6½	Prospects of standing crops are fair. Condition of prospects of jute are not favourable: flood is causing some damages. Harvesting of <i>aus</i> continues. Fodder is insufficient in Kandi. Large import or export. Cattle-disease reported from thana Khargram in Kandi division.
	Lalbagh ...	0·09	6½	6½	
	Jangipur ...	0·44	7½	6½	
	Kandi ...	0·10	8½	8	
4	JESSORE	1·50	6	6	Condition and prospects of standing crops are favourable. Harvesting of jute and <i>aus</i> continues. Lands are being prepared for <i>rabi</i> crops. Export of paddy continues to be reported from the Bongaon subdivision. Fodder and water are sufficient.
	Jhenidah ...	0·24	6½	5½	
	Magura ...	0·32	6	6	
	Narail ...	0·26	6½	5½	
	Bongaon ...	9·14	6	6½	
5	KHULNA ...	0·42	6	6	Weather hot with light rain. Condition and prospects of standing crops are fair. Harvesting of <i>aus</i> paddy and jute continues. Transplantation of <i>aman</i> paddy seedlings is being retarded in some parts of Bagerhat subdivision. Effects of weather on the growth of <i>aman</i> are unfavourable. Condition and prospects of jute are fair; some damage is reported from Syamnagore, Debhatta and Baranagar. Fodder and water are sufficient.
	Satkhira ...	2·14	6	6	
	Bagerhat ...	0·17	6½	6½	

Serial No.	District and subdivision.	Rainfall.	PRICE OF COMMON RICE, IN SEKES, PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
		Inches.			
6	BURDWAN ...	1.25	6	6½	Weather hot and cloudy with occasional showers. Weeding and harvesting of <i>aus</i> paddy and jute continue. Prospects of <i>aman</i> paddy and sugarcane are good. Rinderpest is reported from Jamalpur, Ketagram and Mangalkot thanas.
	Asansol ...	3.37	6	6	
	Katwa ...	0.40	7	6½	
	Kalna ...	0.78	6½	6½	
7	BIRBHUM ...	4.53	6½	6½	Condition of standing crops is good. Fodder and water are sufficient.
	Rampurhat ...	0.55	7	7	
8	BANKURA ...	1.70	8	6½	Export of rice and paddy continues. Standing crops are doing well. Agricultural prospects are favourable.
	Vishnupur ...	(n)	(n)	6½	
9	MIDNAPORE ...	1.70	7½	7½	Weeding of winter paddy is progressing. Harvesting of jute continues. Fodder is sufficient.
	Jhargram ...	0.75	6	6	
	Ghatal ...	1.94	7½	6½	
	Tamluk ...	0.96	5½	5½	
	Contai ...	1.67	7	6½	
10	HOOGLY ...	1.06	5½	5½	Effects of weather on crops are favourable. Fodder is sufficient. Condition and prospects of jute are fair. Harvesting of jute continues.
	Serampore ...	0.53	5½	5½	
	Arambagh ...	1.39	6½	6½	
11	HOWRAH ...	0.68	5½	5½	Weather favourable. Weeding of paddy and cutting of jute continue.
	Uluberia ...	1.57	5½	5½	
12	RAJSHAHI (RAMPUR- BOALIA).	0.03	6½	6	Reaping of <i>aus</i> paddy continues. Prospects of <i>aman</i> paddy are good. Effects of weather on jute are favourable. Harvesting of jute continues. Condition of jute on high lands is poor. Fodder and water are sufficient.
	Naogaon ...	0.99	6	5½	
	Nator ...	0.28	6½	6	
13	DINAJPUR ...	0.06	7½	7½	Weather seasonable. Prospects of <i>bhadoi</i> paddy and jute are not favourable. Harvesting of jute and <i>bhadoi</i> paddy continues. Transplanting of winter paddy is finished and its prospects are good. Fodder and water are sufficient.
	Thakurgaon ...	.76	8½	8
	Balurghat ...	.3	8	7½
14	JALPAIGURI ...	2.7		6½	Condition of jute is normal. Harvesting of jute and <i>bhadoi</i> paddy is continuing.
	Alipur ...	0.33		6	

(n) Not reported.

Serial No.	District and subdivision.	Rainfall.	PRICE OF COMMON RICE, IN SEERs, PER MUPK.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches.			
15	DANJERLING ...	1.35	5½	5	Maize and potatoes are being harvested. <i>Marua</i> is progressing well. Paddy seedlings are being transplanted. Effects of weather on jute and the condition of the crop are good. Fodder and water are sufficient. Cattle-disease exists in places.
	Kurseong ...	2.89	6	6	
	Siliguri ...	3.80	6	6	
	Kalimpong ...	0.60	5½	5½	
16	RANGPUR ...	0.29	6½	6½	Transplantation of winter paddy and steeping of jute are making slow progress for want of rain. Cattle-disease is reported from the Gaibandha subdivision and fresh outbreak is reported from Kishoreganj. Veterinary assistants are attending. Fodder and water are sufficient.
	Nilphamari ...	0.77	6½	6½	
	Kurigram ...	0.62	6½	6½	
	Gaibandha ...	0.52	7½	6½	
17	BOGRA ...	0.23	7½	7½	Harvesting of <i>aus</i> paddy and jute are nearly finished. Transplantation of winter paddy seedlings and steeping of jute continue. Prospects and condition of jute are fair.
18	PABNA ...	0.62	6	5½	Rainfall during the week was slight. Prospects of standing crops are good. Harvesting of <i>aus</i> paddy is finished and that of jute is still continuing. No damage of jute is reported. The condition and prospect of jute are fair. Agricultural stock is sufficient. Rice market is fluctuating. Fodder and water are sufficient.
	Sirajganj ...	0.93	6½	6½	
19	MALDA ...	0.53	6½	6	Prospects of transplanted winter paddy are good.
20	COOCH BEHAR	0.72	7½	(n)	Weather reasonable. Cutting, steeping and washing of jute are continuing. Prospects of jute and other standing crops are favourable. Fodder is sufficient. Cattle-disease is reported from Mathabhanga subdivision.
21	DACCA ...	0.92	7	7	During the week there was a light rainfall over the district. Harvesting of jute is now complete. Cutting of jute is in full swing. No damage of jute is reported.
	Manikganj ...	2.50	7½	7½	
	Narayanganj ...	(n)	(n)	7½	
	Munshiganj (a)	(n)	6½	6½	
22	MYMENSINGH ...	1.95	6½	6½	Harvesting of <i>aus</i> and transplantation of winter paddy continue satisfactorily. Prospects good. Effect of weather on the jute crop has been favourable. Progress of harvesting satisfactory. Sufficient fodder and water available.
	Jamalpur ...	0.78	6½	6½	
	Tangail ...	0.19	6½	6½	
	Netrokona ...	2.27	6½	6½	
	Kishoreganj ...	1.48	5½	5½	

(a) Munshiganj being very near to Dacca and Narayanganj, its rainfall statistics are not reported here. In the district, rainfall figures for Kapasia thana are reported here.

(n) Not reported.

Information regarding the northern part of the

Serial No.	District and subdivision.	Rainfall.	PRICE OF COMMON RICE, IN SEERS, PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches.			
23	FARIDPUR ...	1.31	{ 6½ 6½ }	{ 6½ 6½ }	Harvesting of jute continues. Prospects of standing crops are unfavourable. Fodder is insufficient excepting in the Goalundo subdivision.
	Goalundo (Rajbari).	0.81	6	6	
	Madaripur ...	0.37	6½	6½	
	Gopalganj (a) ...	0.47	6½	6	
24	BAKARGANJ (BARISAL).	1.08	6½	6	Weather seasonable. Prospects of standing crops are fair. Fodder and water are sufficient.
	Pirojpur ...	0.12	6	5½	
	Patuakhali ...	1.42	6½	6½	
	Dakshin Shabazpur (Bhola).	(n)	(n)	7½	
25	CHITTAGONG ...	1.48	{ 5½ 6½ }	{ 5½ 6½ }	Transplantation of <i>aman</i> paddy and harvesting of <i>aus</i> paddy are in progress. Prospects of standing crops are fair. Fodder is sufficient. <i>Panga</i> salt is selling at 13 seers per rupee at Sadar subdivision and 10½ seers at Cox's Bazar. Cattle-disease is reported from Satkania.
	Cox's Bazar ...	0.37	6	6	
26	TIPPERA (COMILLA).	1.38	5½	5½	Weather hot and cloudy. Harvesting of <i>aus</i> paddy and jute are nearing completion and transplantation of <i>aman</i> paddy is progressing. Condition and prospects of standing crops are satisfactory. The weather condition is favourable to jute and no damage is reported.
	Brahmanbaria	5.16	5½	5½	
	Chandpur ...	0.02	6½	6½	
27	NOAKHALI ...	2.90	5½	5½	Weather seasonable. Prospects of standing crops are good. Transplantation of <i>aman</i> paddy seedlings is completed. Jute is slightly damaged owing to continued drought. Harvesting is nearly finished. Fodder and water are sufficient.
	Feni ...	1.87	6½	6	
28	CHITTAGONG HILL TRACTS.	3.31	6	5½	Prospects of crops are favourable. Fodder and water are sufficient. Condition of cotton is not very promising.
29	TRIPURA STATE	2.68	5½	5½	Weather seasonable. Cotton is in flower in some places and its condition is fair. Condition and prospects of other standing crops are also fair. Cleaned cotton is selling at Rs. 25 to Rs. 50 per maund. Fodder and water are sufficient. Cattle-disease is reported from two divisions.

(a) 2

* *Surma* rice.

Jampur, which is very near to Gopalganj, is shown here.

(a) Not reported.

J. GHOSH,

for Director of Agriculture, Bengal.

DACCA, the 16th September 1922

Vital Statistics of Towns with a population of 50,000 and over of Bengal Presidency for the week ending Saturday, the 4th February 1922.

District.	No.	Towns.	POPULATION UNDER REGISTRATION ACCORDING TO CENSUS OF 1921.			BIRTHS REGISTERED.	DEATHS REGISTERED.																	Total of all causes.			Total of all causes.		Total of corresponding week of the previous year.			
			Male.	Female.	Total.		Number registered (excluding still-born, still registered, births).	(Cholera.	Small-pox.	Plague.	Malaria.	Kutanic fever.	Measles.	Relapsing fever.	Kala-azar.	Other fevers.	Dysentery.	Diarrhoea.	Influenza.	Pneumonia.	Phthisis.	Other respiratory diseases.	Injuries.	Deaths from child-birth.	Other causes.	Male.	Female.	Total.	Male.	Female.	Total.	
Calcutta	1	Calcutta	617,880	290,261	907,881	402	10	19	22	1	28	6	2	...	6	23	39	5	15	52	41	90	8	1	206	323	240	543	259	270	529	
Bardwan	2	Amraol Mining Settlement.	176,874	152,539	329,357	64	...	...	...	...	...	...	...	...	...	19	3	...	...	...	...	16	...	...	35	43	29	72	47	52	99
Howrah	3	Howrah	129,472	66,929	196,301	86	7	10	13	...	7	1	...	...	1	16	11	6	...	10	2	9	2	1	40	73	54	128	136	64	180
Dacca	4	Dacca	67,733	52,117	119,450	61	4	1	...	...	...	...	...	...	6	20	5	1	...	6	3	3	1	...	30	20	39	77	40	34	74
	5	Manikata	40,896
		Bhatpara	45,723	19,856	64,609
		Barisal	36,289	20,185	56,474	11	...	...	1	...	...	...	...	...	...	1	1	...	...	...	...	3	...	...	13	14	6	20	21	16	37
	8	Tilerath	36,552	15,918	52,451	4	8	1	...	1	5	5	10	21	16	37

CHAS. A. BENTLEY, Director of Public Health, Bengal.

CALCUTTA, the 30th August 1922.

DAILY RAINFALL RECORDED IN BENGAL

DIVISION.	District.	Station.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
24-Parganas	Baugh Island ...	0.71	2.23	...	...	0.73	1.70	...	...	0.03	0.03	...	...	...	...	0.03	0.03	0.16	0.07	0.28	0.53	0.74
	Diamond Harbour ...	0.66	10.03	0.77	...	1.03	0.25	...	...	...	...	0.05	...	0.02	...	1.52	0.42	0.14	0.43	0.22	0.34	
	Budge-Budge ...	0.14	4.92	0.78	0.28	...	3.80	...	0.03	0.26	...	0.14	0.03	0.63	2.07	0.16	0.02	0.13	0.99	0.62	0.25	
	Canning Town ...	2.65	5.85	1.17	...	3.16	0.23	...	...	...	...	...	...	0.60	0.62	...	1.15	...	...	...	1.75	
	Alipore ...	0.26	7.60	0.64	...	0.27	1.07	0.12	...	0.14	...	...	...	1.35	0.04	...	0.60	0.35	1.03	0.15	0.21	
	Barackpore ...	1.37	7.96	...	...	0.24	...	0.56	...	0.80	...	0.97	...	0.93	...	1.60	...	0.27	0.26	...	0.40	
	Dum-Dum ...	4.25	0.70	0.20	0.14	1.10	0.68	0.04	0.20	0.74	...	...	2.95	0.38	0.19	0.28	0.61	0.22	0.20	0.25	0.17	
	Barnet ...	2.25	3.00	0.20	...	0.25	1.20	...	0.35	...	...	...	0.06	2.11	0.03	1.48	0.17	0.50	0.09	0.33	...	
	Basirhat ...	1.23	3.93	0.41	...	0.16	1.09	0.16	0.17	0.12	0.11	...	...	...	0.06	0.13	0.21	0.40	0.06	...	0.71	
	Gosaba ...	1.75	12.34	...	...	0.10	1.79	...	...	0.23	0.18	...	...	...	...	...	...	...	...	...	...	1.10
Nadia	Ranaghat ...	1.10	2.00	0.25	...	1.60	1.28	0.14	0.20	3.00	0.94	0.40	0.20	0.13	0.20	...	0.03	0.55	0.83	...	0.10	
	Krishnagar ...	0.10	1.25	0.45	0.07	0.20	0.21	0.11	0.26	1.06	0.21	...	0.12	0.05	0.55	...	0.19	0.05	...	0.38	0.52	
	Chudanga ...	0.49	0.53	0.21	0.09	0.75	1.11	0.15	2.30	0.04	0.08	0.52	0.10	0.28	1.44	...	...	0.13	0.14	0.61	0.02	
	Meherpur ...	0.06	0.23	0.14	0.04	0.43	0.11	0.75	0.45	0.28	...	...	0.06	...	...	...	0.03	0.22	0.10	0.05	0.18	
	Kushtia ...	...	0.45	...	...	0.32	0.11	0.30	0.20	...	0.20	0.12	0.63	...	...	...	0.46	...	0.20	...	...
	Haringhata ...	3.13	1.65	0.22	...	1.60	0.11	0.24	0.03	0.21	0.08	...	...	0.76	0.20	0.02	...	...	...	0.12	0.23	
Murshidabad	Kandi ...	...	0.55	0.1	...	...	0.1	0.05	0.2	...	0.03	...	...	2.24	0.75	...	...	0.92	0.07	...	...
	Perhampore ...	0.70	0.13	0.40	...	0.10	...	0.11	0.21	0.11	0.12	0.16	0.22	0.55	0.40	0.11	0.13	...	0.44	0.21	0.43	
	Lalbagh ...	0.03	0.02	1.27	1.47	5.52	...	2.49	0.22	...	...	...	0.21	0.22	...	0.69	0.02	...	0.11	...	1.26	
	Azinganj ...	0.25	0.26	0.29	0.22	2.38	...	0.57	0.14	0.12	...	...	0.18	...	0.42	...	0.23	0.25	...	...	0.09	
	Jangipur ...	0.06	0.28	0.04	0.01	3.63	...	0.24	0.03	...	...	...	0.07	...	...	...	...	0.41	0.01	0.76	0.19	
	Lalgola ...	...	1.5	0.73	3.0	...	1.50	0.20	...	...	...	...	...	0.16	...	...	0.25	0.20	0.25	0.24	0.16	
	Akriganj (Maricha) ...	...	0.41	0.20	...	0.20	...	1.20	0.26	0.02	0.50	0.45	0.06	...	...	...	...	...	...	...	0.23	
	Patenbari ...	...	...	0.63	0.12	3.13	...	1.08	0.05	0.03	...	...	...	1.35	0.25	...	...	...	0.27	0.26	0.07	
	Dumkal ...	...	...	0.11	...	0.26	...	0.23	0.27	0.07	0.29	0.08	...	0.28	...	0.67	...	0.16	0.03	0.38	0.46	
	Kalyanganj (Isampur) ...	0.02	0.26	0.11	...	0.26	...	0.23	0.27	0.07	0.29	0.08	...	0.28	...	0.67	...	0.16	0.03	0.38	0.46	
Jessore	Narail ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Jessore ...	0.58	2.94	0.59	0.44	7.17	...	1.39	0.03	3.21	0.24	0.09	1.50	0.09	0.03	0.07	0.25	0.04	0.14	...	0.26	
	Jhenida ...	0.28	0.50	0.61	0.78	...	0.47	...	0.75	...	...	...	...	0.25	...	0.02	0.06	0.10	0.59	0.08	0.35	
	Magura ...	1.25	0.55	0.24	0.10	4.12	...	0.75	...	0.26	...	0.13	1.76	...	0.07	0.09	...	0.16	...	...	...
BURDWAN.	Kulua	Bongson ...	0.37	5.13	0.25	...	4.75	...	0.24	0.15	3.03	0.50	0.99	...	0.73	...	...	0.13	0.17	0.18	...	0.31
		Satkha ...	0.68	3.39	0.01	0.26	0.20	...	0.64	0.23	0.56	0.78	0.23	...	0.73	...	0.25	0.49	0.24	0.04	...	1.29
		Bagerhat ...	1.06	0.45	2.13	0.43	...	...	0.27	1.02	...	...	...	0.05	...	...	...	...	0.23	0.60	1.08	...
		Kulua ...	0.40	1.41	0.03	0.12	1.52	...	0.06	0.18	2.39	0.26	0.04	1.22	...	...	0.07	0.19	0.10	0.07	0.10	0.71
	Burdwan	Kaliganj ...	2.10	6.55	...	...	2.10	...	...	1.65	1.30	0.26	...	...	...	0.50	...	...	0.10	0.12	1.08	...
		Nakipur ...	2.79	4.64	0.29	0.69	1.28	...	...	1.24	...	...	...	...	...	0.19	0.20	...	...	...	...	...
		Dumuria ...	0.40	1.55	1.00	0.48	1.17	...	0.16	1.46	0.68	...	0.28	...	...	0.62	0.21	0.10	0.25	0.34	...	
		Hampal ...	0.73	1.61	1.46	0.24	1.22	...	0.36	1.82	1.25	0.26	0.28	0.02	...	...	0.03	0.17	...	0.42	0.27	
		Kalra ...	3.03	3.07	...	...	4.04	...	0.09	1.09	0.23	0.08	0.10	0.13	0.25	0.20	0.18	0.59	0.10	0.23	0.10	0.68
		Pakgachha (Barui) ...	2.20	7.80	...	...	2.22	...	0.37	1.53	2.09	1.14	...	...	0.14	...	0.16	...	0.22	0.17	0.48	...
		Mollahat ...	0.20	0.20	0.03	0.65	0.83	7	0.68	1.06	0.46	...	3.14	...	...	0.10	...	0.16	...	0.59	1.11	1.11
		Moulgani ...	1.74	1.30	0.45	1.10	1.22	5	0.69	0.22	1.25	0.20	1.23	...	0.48	0.26	1.25	0.95	0.45	1.20	...	1.25
		Tala ...	4.70	0.20	0.20	0.52	2.04	4	...	0.50	0.80	1.01	...	...	...	0.22	0.20	0.48	...	...	...	2.08
	Burdwan	Kalna ...	0.99	1.70	0.48	...	...	48	0.75	0.24	1.26	1.00	0.68	0.22	0.86	0.13	0.14	0.08	0.42	0.37	0.06	0.22
		Burdwan ...	0.93	2.80	0.75	...	74	0.19	0.22	0.03	0.04	...	0.03	2.03	1.15	0.01	...	0.03	0.03	0.04	2.01	...
		Katwa ...	...	0.71	0.30	...	31	...	1.70	...	1.03	...	...	0.81	0.47	0.20	...	...	...	...	0.69	...
		Asanol ...	0.12	1.15	4.97	0.74	...	65	0.27	...	...	...	...	...	1.24	2.46	0.30	0.09	0.24	0.10	0.85	0.75
		Mauhar ...	3.20	0.15	...	...	80	0.60	...	...	...	...	...	...	...	...	...	...	...	0.10	0.15	0.11
		Mangalkot ...	3.20	1.00	...	1.20	...	80	1.10	...	...	...	...	...	...	...	...	...	...	...	1.70	...
BURDWAN.	Burdwan	Royna ...	3.20	3.20	...	0.20	...	90	...	...	...	...	...	...	...	...	...	...	...	...	...	0.20
		Monteswar ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Burdwan ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Burdwan ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Birbhum	Buri ...	0.28	0.94	0.85	3.73	...	1	...	0.60	...	0.15	...	...	0.25	...	...	...	0.44	...	0.24	0.68
		Hatampur ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Hampurhat ...	1.10	1.83	0.06	0.03	...	...	0.06	0.23	...	...	...	...	...	...	0.57	0.26	0.10	0.10	...	0.40
		Dolpur ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Burdwan	Murari ...	...	...	...	0.50	...	...	0.60	...	...	...	...	...	...	...	...	...	...	2.50	1.12	0.26
		Lalpur ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Burdwan	Bankura ...	...	1.45	11.13	0.05	...	1.80	0.09	0.44	...	...	...	...	0.06	0.25	0.19	0.06	...	...	0.42	1.93
		Vishnupur ...	...	4.48	7.20	...	1.69	0.03	0.06	...	...	0.02	0.41	0.03	0.24	0.06	0.08	0.46	0.02	0.64	0.10	0.94
		Mallara ...	...	0.80	4.09	0.70	2.20	...	0.68	...	...	...	...	...	0.31	0.22	0.11	0.12	0.19	0.01	0.12	0.37
		Khatra ...	...	3.08	7.63	1.03	...	0.05	0.05	0.27	...	...	...	...	0.37	2.63	0.28	0.40	0.46	2.59	...	0.57
		Indas ...	...	5.43	2.97	...	...	0.11	0.22	0.42	0.15	...	...	...	0.73	0.56	0.19	0.11	...	0.10	0.23	0.98
		Kotalpur ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Onda ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Ganesajalabati ...	1.1	0.25	4.61	0.37	0.02	0.95	0.01	0.84	...	...	0.66	0.17	0.17	0.03	0.01	0.22	0.02	0.06	...	0.64
		Balpur ...	0.0																			

FOR THE MONTH OF AUGUST 1922.

21	22	23	24	25	26	27	28	29	30	31	Number of rainy days.	Average number of rainy days.	Total rainfall for the month.	Normal rainfall for the month.	Highest rainfall during the month.	Total rainfall from 1st June up to 31st August 1922.	Normal rainfall from 1st June up to 31st August 1922.	Station.	DISTRICT.	DIVISION.
0.07 1.32	0.03	...	1.32 ...	2.32 0.34	5.87 1.04	0.18 0.12	0.07 0.04	13 14	16.4 17.7	19.14 23.66	13.8 13.66	5.87 10.03	47.98 59.29	39.45 39.64	Saugor Island ... Diamond Harbour.	24-Parganna	PRESIDENCY.
0.85 1.22 0.63	0.18 0.80 0.26	...	...	...	...	0.07 1.25 0.32	0.08 1.26 0.19	0.06 ...	0.01 ...	...	15 16 12	17.0 16.3 16.3	15.27 21.42 18.11	11.33 12.79 12.18	4.93 5.85 7.80	57.87 63.79 55.50	37.60 38.79 34.66	Budge-Budge. Canning Town. Alipore.	
...	0.10 0.10 0.49 0.07	0.15 0.03 ...	1.50 ...	...	...	1.25 2.00 1.20	...	1.15 ...	4.09 0.52	...	21 18 15	15.7 16.0 15.6	20.97 18.18 11.19	11.63 11.41 11.80	4.25 3.00 3.93	52.91 48.33 44.36	35.21 33.47 26.89	Dum-Dum. Baraset. Basirhat.	
...	...	...	...	...	0.43	0.52	0.17	0.10	0.02	0.17	13	(n)	19.31	(n)	12.34	57.59	(n)	Gosaba.	
0.63 0.06 0.03 0.85 0.44	...	...	...	...	...	0.24 0.07 1.75 0.47 ...	0.30 0.29 ...	0.60 0.11 0.03 0.07 ...	...	...	19 17 18 14 11	15.1 14.5 14.7 15.5 16.1	14.41 12.44 12.33 14.6 16.1	11.63 10.51 11.23 11.75 10.56	3.00 1.35 2.50 0.88 1.53	47.71 37.82 43.57 31.69 14.14	31.89 31.37 32.03 32.12 32.60	Ranaghat ... Krishtinagar. Chandanga. Meherpur. Kashita.	Nadia
...	0.15	...	...	...	...	...	0.29	0.28	0.06	...	16	13.3	14.34	8.00	1.65	28.60	30.21	Haringhata.	
0.54 ...	0.1 ...	...	...	...	...	...	...	0.13 0.30	0.11 0.29	0.44 ...	10 20	15.2 16.4	14.6 ...	11.08 11.75	2.34 2.87	35.73 38.70	33.31 32.50	Kandi Berhampore.	Murshidabad.
...	...	...	...	...	0.02 0.03 ...	0.04 0.02 ...	...	0.04 0.12	0.29 ...	...	11 15	15.8 16.4	14.6 ...	13.06 11.29	6.52 3.38	52.10 38.84	36.68 32.04	Lalbagh. Azimganj.	
...	...	...	...	...	0.03 ...	0.02 ...	0.04 ...	0.25 ...	0.26 ...	...	14 15	14.9 13.7	10.44 ...	8.0 9.39	42.36 1.90	31.62 36.21	31.86	Jangipur. Lalgaia. Akrikanj. (Maricha).	
0.27 0.07	...	...	...	0.27 ...	0.55 ...	...	0.02 0.07	0.57 ...	...	0.23 ...	12 13	13.8 16.3	10.69 12.72	3.13 2.90	34.10 31.63	31.71 35.09	Putasbari. Dumkol. Kalyanganj (Lhanpur).		
0.13 0.60 0.40 0.10	0.07 ...	...	...	0.49 ...	...	1.36 2.10 2.17 0.52	1.30 0.40 1.40 1.71	0.48 0.20 0.92	0.55 ...	0.22 0.20 ...	21 15 17 16	14.7 16.6 14.6 16.9	14.7 11.01 9.76 11.63	10.16 2.10 4.12 5.13	61.10 37.38 41.47 55.30	32.76 33.73 32.04 33.23	Narail Jessore. Jhenida. Mugura. Bongaon.	Jessore	
0.47 ...	0.34 ...	...	...	0.05 ...	...	0.91 2.05	0.12 0.92	0.24 0.52	...	...	19 12	16.0 17.4	14.6 14	11.17 12.10	3.30 2.95	52.12 47.10	35.90 41.00	Saktiara Bagerhat.	Khulna
...	0.48 0.24 1.75 0.45 1.30 0.18 1.72	...	...	...	...	0.01 0.40 1.20 3.40 2.17 0.15 1.50	0.01 0.12 1.10 0.60 0.62 0.05 ...	0.53 0.72 0.08 0.37 0.17 1.60	0.21 0.10 0.15 ...	0.12 0.13 1.0 ...	19 13 17 21 16	17.0 16.1 15.4 17.0 18.7 17.5	14 21 11 11 14 14	11.52 10.40 11.35 12.85 18.11 11.40 13.34	3.59 6.65 4.64 2.93 2.17 4.04 7.50	50.94 73.97 47.19 46.31 48.25 45.56 58.66	37.08 47.19 37.93 41.51 40.80 38.27 49.86	Khulna. Kalikanj. Kalkipur. Chimra. Kamra. Kalara. Parkachha (Harail).	
...	...	1.47	0.62	0.58 0.12	0.57 1.95	3.35 2.22	1.16 0.10	...	1.11 0.45	...	20 25 13	17.2 19.3 16.4	22 21 16	16.36 14.22 11.11	5.63 2.22 4.70	61.18 90.70 62.65	47.23 46.72 38.63	Mohabat. Miralganj. Tala.		
0.42 0.11 0.50 0.56	0.04 ...	...	...	...	0.06 ...	0.58 0.27 1.18	0.58 0.13 ...	1.04 0.03 ...	1.10 0.01	0.02 0.21	19 13 15	14.2 15.9 14.8	15.4 16.2 9.8	9.90 32	1.70 2.80 1.79	40.64 57.34 34.06	32.80 33.37 32.06	Kalua Burdwan. Kalua.	Burdwan
...	...	...	...	...	...	...	...	...	...	...	7 10 7	14.0 17.0 (n)	5.9. 14.40 10.80	3.30 4.00 5.50	37.61 59.05 ...	32.99 33.43 (n)	31.94 32.06 (n)	Asan-ul. Mankar. Mangalkot. Royua. Monteswar.	
0.60 ...	...	...	...	1.22 ...	0.52 ...	0.04 ...	...	...	0.50 ...	0.04 ...	16 13	17.2 15.4	13 11	...	4.03 3.60	42.41 40.69	26.24 33.7	Suri Hatampur. Rampurhat.	Birbhum
0.25 ...	0.08 ...	...	...	...	0.30 ...	1.35 ...	0.05 ...	2.60 ...	...	0.03 ...	13 11	15.4 14.8 15.2 16.9	...	...	3.60 ...	40.69 46.94 38.1 32.9	33.7 31.4 38.1 32.9	Bolpur. Mural. Lalpur.	
0.59 ...	...	...	...	...	1.22 ...	0.21 0.08 0.55	0.58 0.19 1.10	0.63 0.12 2.36	0.42 1.04 2.26	0.12 0.21 0.02	17 16 20	16.3 15.4 16.4	23.25 30.67 17.95	...	...	67.32 57.19 54.79	34.2 34.0 34.1	Bankura Vishnupur. Melara.	Bankura
0.40 0.32 0.42	0.06 0.03 ...	...	...	...	...	0.04 ...	0.84 0.13 1.55	0.43 0.02	0.04 ...	...	16 14	16.8 12.4 18.4	27.99 16.83	...	7.65 5.42	56.26 57.46	34.5 34.12	Khatra. Indas.	
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Kotalpur. Onda.	
0.22 0.79	0.25 0.04	...	...	...	0.14 ...	...	0.06 0.17	0.06 ...	0.43 0.92	0.02 ...	15 16	14.4 15.3 14.3	13.32 17.72	10.8 10.74	4.61 4.29	52.73 65.00	34.5 37.1	Gangajalghati. Kalpur.	
0.19 0.50 0.30 0.03 0.50 0.08 0.31	...	...	...	...	...	1.10 ...	...	0.23 0.16 1.90	...	...	14 16 18 22 14 15 17	(n) (n) (n) (n) (n) (n) (n)	23.20 19.39 21.79 19.26 14.79 23.62 11.99	(n) (n) (n) (n) (n) (n) (n)	8.26 7.05 12.11 9.35 3.25 8.28 3.75	72.57 44.11 59.41 68.2 ...	(n) (n) (n) (n) (n) (n) (n)	Taldanga. Saranga. Indpur. Achra. Barjora. Simulpal. Meda. Simulpal.	
...	0.40	...	...	...	...	...	0.44 0.05 0.30 0.25 ...	...	0.28 ...	...	19 15 20 19 9	(n) (n) (n) (n) (n)	11.16 18.25 17.15 24.00 17.94	(n) (n) (n) (n) (n)	...	...	(n) (n) (n) (n) (n)	Paschimanga. Chatra. Kandibandh. Jalpur. Ambikanagar. Jairampur.	

DAILY RAINFALL RECORDED IN

DIVISION.

N. B. DIVISION—continued.

RAJSHAHI.

DISTRICT.	Station.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20		
Midnapore.	Contai	0.39	2.48	...	...	0.18	0.29	0.01	...	...	...	0.06	...	1.04	0.49	0.40	0.19	0.08	1.54	0.81	0.46
	Tamluk	0.21	0.99	0.48	...	1.54	0.60	0.03	...	0.04	...	0.06	...	0.40	2.40	0.15	0.27	...	1.68	0.15	0.11		
	Midnapore	0.4	6.83	0.50	...	...	0.69	0.19	3.44	...	...	0.03	...	1.52	0.14	0.38	0.09	0.95	0.05	0.06	0.79
	Ghatal	1.12	0.93	0.45	...	0.23	2.35	...	0.60	0.60	...	0.30	...	0.20	0.48	0.35	0.09	0.33	0.75	0.19	1.16		
	Kukrahati	0.13	0.60	0.49	...	0.82	1.92	...	...	...	...	0.11	...	1.11	0.35	0.69	0.39	0.12	1.30	0.33	0.80
	Amalgura	1.15	0.80	7.20	...	...	1.30	0.12	...	0.39	...	0.59	...	0.20	...	1.40	...	...	...	0.25	1.45
	Panskura	0.30	4.35	1.27	...	0.25	1.00	0.10	1.15	...	...	...	...	0.90	0.95	1.30	0.10	0.20	0.10	0.30	0.70
	Dantan	...	2.40	...	...	...	0.30	0.30	...	0.55	...	0.45	...	0.95	0.70	0.20	...	0.20	0.14	...	0.30
	Chandrakona	...	...	...	...	...	...	...	...	...	...	...	...	2.05	2.15	0.14	...	...	0.60	0.40	0.41
	Pachetwarh	0.37	5.50	0.07	...	0.30	0.39	0.05	...	...	...	...	...	1.09	1.53	0.49	0.07	0.04	0.20	0.04	0.37
	Bhagwanpur	0.74	0.35	0.44	...	1.67	0.68	0.08	0.37	0.15	...	0.11	...	...	...	...	...	...	...	...	...
	Kes Kulkri	...	...	...	...	...	...	...	...	...	...	...	...	2.12	0.33	0.55	...	0.28	0.80	0.30	0.76
	Nayabasan	...	3.70	0.80	...	0.16	0.45	0.35	0.31	...	...	...	...	0.95	0.70	0.10	0.03	1.87	0.10	2.00	1.87
	Stida (Belipahari).	0.43	2.85	2.40	0.45	0.45	0.18	...	0.44	...	...	...	...	...	...	...	...	...	...	...	...
	Chandri	...	...	...	...	...	...	...	...	...	...	...	...	1.50	...	0.33	...	0.57	...	0.50	1.06
	Gualtore	...	5.00	6.57	...	...	1.08	0.91	0.90	1.00	...	...	...	...	...	...	...	...	...	...	...
	Salboni	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Narayangarh	5.80	0.10	1.70	0.50	0.40	0.40	0.30	0.10	1.40	0.60	0.40	0.30	0.10	...	3.40	0.40	0.10	
	Ramnagar	0.33	2.35	...	...	0.14	0.37	0.13	...	...	...	...	...	...	...	...	...	...	...	...	...
	Mohanpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1.90	...	...	0.20	1.80	0.09
	Henri	0.55	0.90	2.40	0.0	0.02	0.37	0.35	0.15	...	0.72	0.59	0.60	
	Jenka (Kajri)	0.28	3.90	...	...	2.44	0.0	...	...	...	...	...	...	...	0.10	1.40	0.30	0.60	1.10	0.70	0.60
	Nandigram	4.85	0.03	0.15	1.75	0.40	1.65	2.75	1.90	0.65	0.53	0.13	0.57	0.02	0.15
	Moyua	...	5.05	0.77	1.5	0.30	0.10	0.10	0.20	0.40	0.55	0.20	...
	Pingla	4.00	0.50	1.40	...	1.00	0.70	2.08	0.08	0.30	...	0.72	1.74	0.12	0.15
	Narajole	0.50	5.74	2.84	0.60	0.21	2.00	0.13	0.14	0.10	3.90	0.65	0.09	0.10	0.15	0.04	0.40
	Kalahat (Daman)	0.17	4.52	1.12	...	0.01	0.1	2.10	0.03	0.32	0.23	
	Balobak	0.46	7.65	0.82	1.1	0.37	0.35	
Hooghly	Sarampur	1.11	5.05	0.16	...	0.06	0.1	0.05	0.02	0.75	...	0.35	...	0.75	...	0.73	0.06	0.12	0.31	0.09	0.13		
	Hooghly	0.45	1.25	...	1.15	1.00	0.0	0.12	0.65	0.85	0.35	...	0.35	...	0.35	...	...	1.23	0.55	...	0.40
	Arambagh	0.32	10.75	2.44	0.45	0.35	0.0	0.05	0.75	2.77	...	1.10	0.35	0.34	0.36	1.55	0.04	0.04	0.03	0.60	0.13		
Howrah	Howrah	0.34	0.10	0.45	...	0.15	1.1	0.03	0.04	0.25	0.67	...	0.13	0.17	0.06	0.71	...	0.38	
	Moheswari	0.15	11.23	0.95	...	1.03	2.1	0.05	0.15	0.22	...	1.27	...	2.17	0.21	0.30	0.33	0.72	0.65	0.68	1.85		
	Chubaria	0.30	10.90	1.08	...	0.42	2.1	0.03	0.03	0.60	...	0.12	...	1.37	0.35	0.85	0.10	1.35	0.35	0.74	0.63		
Boalis	Amra	0.35	12.00	1.30	...	1.50	2.1	1.45	1.80	2.00	...	0.71	...	1.24	0.08	0.45	...	0.30	0.06	0.86	0.40		
	Boalis	...	0.25	0.73	0.17	0.10	0.1	1.25	0.40	0.11	0.06	0.30	0.02	0.48	
	Nator	0.30	1.01	0.15	0.15	0.39	0.1	0.20	0.27	0.73	0.03	0.03	...	0.01	1.40	...	0.03	...	...	0.31	0.23
Dinajpur	Narayan	0.13	0.73	...	0.35	0.15	0.1	0.93	0.37	0.45	...	...	...	...	0.37	...	0.50	...	...	...	...
	Bilmaria	0.52	0.82	0.22	...	...	0.1	...	0.15	...	...	...	...	...	0.23	...	...	...	...	0.22	1.04
	Mandu	...	...	...	...	...	...	...	...	...	...	...	...	...	0.64	...	...	...	...	...	0.23
Dinajpur	Mahadebpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Tabor	0.12	0.20	0.53	...	...	...	0.33	0.37	...	...	...	...	...	...	...	...	...	0.07	1.12	0.32
	Chaugram	0.25	0.72	0.55	0.40	...	0.1	1.50	0.20	0.85	1.60	0.60	...	...	1.35	...	...	...	0.30	...	...
Dinajpur	Jorai	...	0.18	0.04	0.38	3.92	0.1	0.20	0.06	0.03	0.05	...	0.19	2.01	...	...	...	0.10	0.12	0.15	0.44
	Nitpur	0.20	0.80	...	0.11	...	...	0.65	0.13	...	...	...	...	...	...	...	...	...	1.00	...	0.15
	Nawalganj	0.20	...	...	...	...	...	0.04	0.30	...	0.34	...	...	...	0.35	0.50	...	...	...	...	0.20
Dinajpur	Gangarampur	...	...	...	0.45	...	...	0.81	0.72	0.85	0.32	...	...	...	0.12	0.15	0.19	...	0.44	0.12	...
	Charanpur	...	1.48	...	...	...	...	1.24	1.20	0.25	...	...	...	...	...	...	...	...	...	...	0.68
	Baliganj	...	...	0.03	...	...	...	2.45	4.20	0.30	0.17	0.10	0.10	0.10	2.15	0.21	...	...	1.70	...	0.35
Dinajpur	Dinajpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Bahurhat	...	0.08	1.50	0.55	0.05	...	2.50	1.90	1.25	...	...	...	...	0.38	0.08	0.84	0.72	...	...	0.02
	Thakurgaon	...	...	...	0.28	0.11	...	4.40	3.33	0.77	0.20	0.07	0.10	0.16	0.08	0.80	...	...	0.24	...	1.00
Dinajpur	Satabganj	2.80	0.73	0.45	0.29	0.35	0.61	0.07	0.29	
	Ramganj	...	...	...	...	...	...	1.35	4.40	0.37	0.11	...	...	...	0.09	0.29	0.10	0.19	1.38	0.15	...
	Atwari	0.80	0.10	0.13	0.19	0.85	1.61	0.50	...	0.70	0.60	...	0.09	0.75	0.21	0.15	0.42	
Dinajpur	Hirganj	...	0.21	...	...	...	...	2.22	1.34	0.84	1.22	0.32	...	0.09	0.76	...	...	...	...	...	...
	Parishipur	...	...	0.12	0.02	...	...	1.68	0.73	0.25	0.07	0.30	0.26	0.30	...	...	...	...	...	...	...
	Jalpaiguri	Jalpaiguri	0.20	0.93	2.45	3.05	0.47	2.80	0.95	1.50	0.40	...	0.03	0.10	
Alipur Duars		0.45	...	...	0.33	...	...	1.90	0.45	3.73	0.13	...	...	1.10	1.03	...	0.10	0.53	...	0.18	0.70
Falakata		...	...	...	0.73	...	...	1.24	0.95	2.65	0.71	0.45	0.15	...	2.34	2.80	...	1.65	...	0.02	0.50
Jalpaiguri	Deliganj	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Bhagatpur	0.20	0.25	1.52	0.83	...	...	1.45	0.58	2.21	0.37	0.05	0.05	0.25	0.30	2.04	0.10	0.27	1.42	...	0.35
	(Agraakata).	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Jalpaiguri	Buxa	0.42	1.71	0.27	0.88	...	...	2.94	2.04	1.47	0.12	1.71	0.85								

21	22	23	24	25	26	27	28	29	30	31	Number of rainy days.	Average number of rainy days.	Total rainfall for the month.	Normal rainfall for the month.	Heaviest rainfall during the month.	Total rainfall from 1st June up to 31st August 1922.	Normal rainfall from 1st June up to 31st August 1922.	Station.	District.	Division.
0.15	0.08	0.13	0.20	0.73	18	15.3	10.58	12.42	2.48	36.26	36.04	Contal	Midnapore	
0.07	0.02	0.03	0.03	12	14.4	12.70	12.70	2.90	39.28	36.25	Tamluk		
0.03	0.06	0.14	13	15.8	12.49	11.84	6.93	47.35	32.40	Midnapore.		
0.17	0.19	0.06	...	0.01	...	17	15.5	21.41	12.60	9.93	46.12	31.95	Chital.		
0.80	0.07	0.14	0.18	0.14	...	18	15.4	14.94	11.81	7.00	48.50	36.64	Kukurhatti.		
0.23	0.03	2.30	15	15.8	23.47	12.77	7.00	49.63	35.11	Amhigura.		
1.10	0.10	0.20	...	18	15.3	12.72	11.44	4.35	31.09	33.35	Jamkura.		
...	0.25	13	12.7	9.04	11.18	2.40	32.39	32.39	Dantan.		
1.47	11	13.0	14.60	10.86	2.00	41.46	36.57	Chandrakona.		
0.17	0.16	0.10	0.04	0.22	0.06	16	13.3	16.24	11.20	8.35	42.12	37.47	Pachetwarh.		
...	18	15.5	10.36	32.04	32.04	Bhagwanpur.		
0.63	0.19	...	0.20	0.02	0.02	18	14.9	11.90	...	2.70	39.22	39.22	Kew Kutiari.		
...	18	14.9	18.42	10.40	2.00	52.15	39.74	Nayabaman.		
0.76	0.30	0.45	14	14.8	31.35	31.35	Sidda (Sel-pahar).		
...	14	13.7	20.80	7.13	6.57	37.05	37.05	Chandri.		
...	16	12.0	15.00	9.84	5.80	38.15	37.45	Goulbore.		
0.15	0.80	11	11.1	9.34	9.34	2.35	33.13	32.66	Salahat.		
0.44	...	0.10	0.20	0.20	0.06	...	9	15.1	...	11.70	...	38.15	38.15	Narmanganah.		
0.60	0.20	0.25	0.35	0.06	...	17	12.6	13.50	9.90	3.00	39.39	39.39	Ramganj.		
0.28	0.19	13	12.3	14.40	10.11	4.85	31.78	31.78	Mohampur.		
...	12	15.7	...	12.35	4.00	39.02	38.72	Henria.		
0.08	0.18	0.10	0.02	0.02	0.34	0.27	12	17.8	5.80	42.87	42.87	Jeuka (Kajrat).		
0.70	0.01	0.04	12	15.5	4.92	42.00	42.00	Nandigram.		
...	12	15.7	4.00	33.65	33.65	Moyra.		
0.08	0.18	0.10	0.02	0.02	0.34	0.27	12	17.8	5.80	42.87	42.87	Phula.		
0.70	0.01	0.04	12	15.5	4.92	42.00	42.0			

(a) Not ascertained.

DAILY RAINFALL RECORDED IN

DIVISION.	DISTRICT.	Station.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
RAJ- SHAHI —continued	Malda ...	Malda	0.11	1.43	0.35	0.15	0.42	2.05	0.28	1.38	0.05	...	...	...	...	...	...	...	...	0.08	...	0.02
		Chanchal	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.10
		Gazol	0.08	0.41	0.13	...	...	0.44	0.23	0.85	0.13	...	...	...	...	...	0.41	0.14	...	...	...	0.20
		Sibganj	...	...	0.43	0.80	0.85	0.96	0.62	...	...	...	...	...	0.33	...	...	...	...	...	0.71	0.21
		Chumattapur	0.34	0.80	...	0.93	0.51	2.42	1.91	1.00	...	...	...	...	...	...	...	...	...	...	...	1.25
	Dacca ...	Nawabganj	0.20	0.25	0.30	0.05	0.25	2.50	...	0.37	...	...	...	...	...	...	...	...	...	...	...	0.31
		Munshiganj	2.03	0.63	0.50	0.28	0.08	2.09	1.31	0.25	1.16	3.10	...	...	...	0.16	0.18	...	0.10	...	...	0.13
		Dacca	1.03	0.11	0.20	0.13	0.48	0.82	2.12	0.42	0.92	2.78	0.32	...	...	0.02	0.02	0.09	0.03	0.04	0.29	0.42
		Nawabganj	2.93	0.20	...	...	0.48	0.65	1.05	0.30	0.33	2.78	...	...	...	...	...	0.15	0.03	...	...	0.29
		Narayanangj	0.24	0.16	0.75	0.19	0.20	1.09	0.96	0.23	1.54	3.38	...	...	...	0.08	...	0.11	0.09	0.00	...	0.09
	Mymensingh	Naraindi	0.22	0.95	0.47	0.02	1.16	0.23	6.42	0.75	1.41	0.81	0.03	0.16	0.03	0.73	...	...	...	0.07	0.57	0.02
		Manikganj	0.20	0.42	1.40	0.60	0.19	0.53	0.32	2.65	0.63	1.25	0.10	...	...	0.92	0.10	0.05	...	...	0.21	0.45
		Joydehpur	1.14	1.12	0.11	2.30	0.48	1.80	1.05	0.24	2.23	0.03	0.14	...	...	0.07	0.12	...	...	0.04	0.18	0.05
		Kapasia	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Kishanganj	0.06	0.65	0.18	...	0.05	1.14	1.27	0.43	0.75	0.54	0.50	...	...	0.16	0.13	0.01	0.05	...	0.05	0.17
Dacca	Faridpur	Atta (Tangail)	...	0.16	0.19	0.21	1.13	0.2	0.13	1.90	...	0.15	...	0.29	0.35	...	...	...	...	...	0.06	0.85
		Sariatbari	0.44	...	0.12	0.33	0.11	2.1	1.21	1.80	0.29	...	0.14	...	0.10	0.05	0.05	...	...	...	0.06	0.85
		Mymensingh	...	0.00	0.03	...	0.04	1.1	1.42	1.62	1.23	0.09	0.53	...	0.18	0.65	0.23	...	...	...	...	0.18
		Jamshpur	0.00	0.14	...	...	0.1	1.72	0.63	1.11	0.12	...	...	0.21	...	...	...	...	...	...	0.36	0.13
		Nerakona	0.26	0.10	0.15	0.41	0.13	0.1	0.60	2.43	1.38	0.17	...	...	0.03	1.06	0.02	0.30	0.12	0.20	0.04	1.22
	Narail	Pingua	0.15	0.10	0.60	0.96	2.30	2.1	2.16	3.20	...	...	0.45	2.45	0.37	...	0.30	...	...	...	1.52	...
		Durapur	0.80	...	...	0.35	...	0.1	3.24	0.58	1.23	0.10	0.08	1.00	0.83	...	...	...	...	...	...	0.70
		Sherpur (Town)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Dewanganj	...	0.48	...	0.23	...	1.1	2.35	2.53	2.16	0.04	0.31	...	6.25	1.10	0.05	...	...	...	0.15	...
		Nailbari	...	...	0.43	...	...	1.44	2.50	0.60	...	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	...	0.70	0.20
	Bakarganj	Madaripur	0.26	0.24	0.89	0.14	3.82	...	0.37	0.79	0.90	...	...	0.55	...	0.11	0.21	0.12	0.09	...	0.11	0.80
		Faridpur	1.50	0.40	0.64	0.12	0.22	...	0.47	1.86	0.40	0.27	0.01	0.50	0.62	0.01	...	...	...	0.05	0.35	...
		Nailbari (Gos)	0.19	0.34	1.20	...	0.08	...	0.15	0.06	0.18	0.07	0.10	0.04	...	...	...	...	...	...	0.02	0.1
		Haridwar	0.47	0.36	0.58	4.05	0.83	...	0.93	2.40	0.05	0.14	0.88	...	...	...	...	...	...	0.29	0.36	0.26
		Takhat	0.12	1.07	0.51	6.12	0.16	...	0.12	0.53	0.22	0.13	0.01	0.04	0.59	0.03	0.03	0.01	0.06	0.02	0.02	0.21
CHITTAGONG.	Chittagong	Rhanga	0.34	0.50	0.29	...	2.05	...	1.87	0.15	0.50	...	...	0.27	0.88	0.52	...	...	...	...	0.07	0.05
		Pargua	1.50	...	0.35	...	...	...	0.40	1.23	0.18	...	0.50	0.40	0.15	...	...	...	...	0.10	0.75	0.50
		Balukandi	0.54	0.12	1.44	0.21	...	...	0.95	0.90	0.34	0.43	1.66	0.62	...	0.42	...	...	...	0.11	0.09	0.35
		Rhanga	2.18	0.25	0.24	0.36	0.40	...	2.75	1.93	0.33	0.03	0.07	0.42	0.12	0.59	0.05	0.05	0.03	0.09	0.05	0.08
		Palong	...	0.22	0.72	...	3.00	...	0.5	0.60	1.20	0.16	0.35	...	0.14	0.15	0.15	0.15	0.15	0.40	0.60	...
	Tippera	Patunkhali	0.23	2.15	1.46	2.04	1.95	...	0.43	...	0.46	1.02	0.04	0.23	...	...	...	...	...	...	0.35	0.83
		Basuga	2.15	1.75	0.17	1.05	1.55	...	1.15	...	0.85	...	0.24	0.08	0.06	...	...	...	...	0.19	0.82	...
		Pharapur	4.05	0.61	1.26	0.90	0.02	...	0.16	0.11	...	...	...	...	...	0.45	0.08	0.13	0.04	...	0.70	0.23
		Barisal	0.14	0.33	0.23	1.20	0.31	...	0.16	...	2.50	...	0.96	0.33	0.06	...	0.07	0.08	0.12	0.22	0.03	0.80
		Gauradhi	0.47	0.45	0.65	0.95	0.75	...	0.43	...	2.51	1.61	0.45	0.12	...	1.18	0.20	0.02	0.15	0.12	0.07	0.35
	Noakhali	Rhola	0.20	1.27	2.15	0.93	0.74	...	1.68	0.37	3.35	0.25	0.80	...	...	0.02	0.15	0.30	0.10	0.30	...	...
		Daulatkhan	1.08	0.45	1.63	0.15	0.65	...	...	0.35	2.02	...	...	...	...	0.05	0.33	0.02	0.20	0.11	0.31	0.61
		Bauphal	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Cox's Bazar	3.57	2.70	1.52	1.17	4.40	...	0.15	0.35	2.93	1.34	1.57	0.30	0.01	...	0.07	0.08	0.01	0.02	0.03	1.05
		Chittagong	0.94	1.52	1.79	1.43	1.27	...	1.96	0.94	2.12	1.92	1.34	0.30	0.01	0.10	0.16	0.05	0.04	0.17	0.25	0.03
COOCH BEHAR.	Tippera	Kutubdia	1.06	2.90	2.24	2.50	3.00	...	0.60	1.73	2.41	2.75	2.37	0.14	...	...	...	...	...	...	...	0.45
		Satkharia	3.25	0.68	1.65	2.08	1.60	...	0.72	2.55	3.50	...	0.70	...	...	...	...	...	...	...	1.10	...
		Kodala	0.63	1.16	0.83	0.83	2.45	...	1.90	1.60	0.95	0.60	...	0.70	0.89	0.33	...	...	...	0.50	0.12	0.06
		Mirzani	1.48	2.70	1.90	0.95	2.34	...	1.90	1.60	2.05	0.90	0.18	0.04	1.93	...	0.06	0.05	0.48	0.15	0.19	...
		Gomila	0.23	0.65	1.36	0.22	0.1	...	0.79	0.15	0.80	1.25	0.10	0.43	...	3.50	0.40	0.10	...	0.40	0.05	0.05
	Noakhali	Chandpur	0.66	0.84	0.26	1.82	...	12	0.71	4.57	1.05	...	...	...	...	3.05	0.67	0.40	0.10	...	0.10	0.29
		Brahmanbaria	0.11	0.23	0.52	0.07	...	64	5.14	0.42	3.44	0.62	...	1.68	0.46	0.38	0.92	0.31	0.04	0.50	0.02	0.03
		Ramchandrapur	0.66	0.93	...	0.32	...	80	3.25	2.31	2.92	...	...	0.85	...	1.00	...	...	...	...	...	...
		Nasirpur	1.24	...	...	1.99	...	40	0.25	2.96	0.93	...	...	1.70	...	...	...	...	...	...	0.45	0.28
		Dandkandi	0.22	1.10	0.13	0.23	...	15	0.75	1.25	2.97	0.20	...	0.38	0.49	0.43	0.40	0.40	0.10	0.40	0.80	0.60
	Chittagong	Kusha	0.37	...	0.36	...	...	36	0.27	0.95	...	...	...	...	...	0.20	0.45	0.40	0.15	0.10	...	...
		Laksmi	0.18	0.82	1.78	0.24	...	28	0.07	...	0.22	0.80	0.25	0.03	...	...	...	...	...	...	0.40	0.10
		Noakhali	0.43	0.88	2.50	1.62	...	6	0.08	...	0.80	0.62	0.40	0.04	...	1.10	0.26	0.07	0.10	0.32	...	0.64
		Foul	0.11	0.95	2.03	1.26	...	1	1.28	1.11	1.46	1.76	0.62	1.09	0.78	...	...	...	0.23	0.78	0.08	0.03
		Harishpur	1.34	1.79	1.87	1.68	...	1	0.37	0.85	3.47	1.91	0.62	1.09	0.14	0.32	1.06	0.09	0.11	...	0.19	0.27
Tippera	Lamkaj	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Chongahaya	1.52	1.23	1.96	1.37	...	...	0.18	1.61	2.40	3.75	1.98	2.90	0.08	1.71	0.43	...	...	0.56	0.28	...	
	Hattia	1.5	0.60	2.10	2.22	...	...	1.70	0.42	0.94	0.95	0.30	...	0.10	0.45	0.36	...	0.85	...	1.15	0.19	
	Lakshmipur	...	...	0.78	1.06	...	...	...	1.24	0.12	1.40	...	...	0.72	0.70	0.34	...	...	0.12	0.23	0.41	
	Haungamati	...	0.54	0.92	1.47	...	...	1.50	0.50	3.54	1.95	0.22	0.20	...	1.28	0.						

(n) Not ascertained.

J. GHOSH, for

of Agriculture, Bengal.

Vital Statistics of Towns with a population of 50,000 and over of Bengal Presidency for the week ending Saturday, the 11th February 1922.

District.	No.	Towns.	POPULATION UNDER REGISTRATION ACCORDING TO CENSUS OF 1921.			BIRTHS REGISTERED.		DEATHS REGISTERED.																Total of all causes.		Total of corresponding week of the previous year.						
			Male.	Female.	Total.	Number registered (excluding still-borns).	Still-borns registered.	(Cholera).	Small-pox.	Plague.	Malaria.	Kubrick fever.	Measles.	Hepatitis fever.	Kala-azar.	Other fevers.	Dysentery.	Typhoid.	Influenza.	Pneumonia.	Tubercle.	Other pulmonary diseases.	Injuries.	Deaths from child-birth.	Other causes.	Male.	Female.	Total.	Male.	Female.	Total.	
1	Calcutta	...	617,890	280,361	907,961	283	19	18	20	1	21	8	1	...	6	17	28	8	14	66	88	63	13	1	209	339	249	378	440	337	777	
2	Howrah	...	98,473	64,991	163,301	85	5	11	11	...	12	1	...	...	...	26	12	6	...	19	2	26	1	...	36	80	76	186	114	87	201	
3	Dacca	...	67,323	32,117	111,460	85	2	...	1	...	3	...	...	...	1	10	1	3	1	4	...	3	3	...	33	31	37	58	42	35	67	
4	Malikpur	...	40,996	20,378	67,372	18	1	1	1	...	2	...	1	...	...	3	6	...	...	2	...	7	...	...	...	22	26	20	46	28	20	46
5	Bhadrabad	...	45,723	19,886	65,609	13	...	...	...	...	...	...	...	...	...	19	...	...	...	...	...	...	...	...	...	2	6	6	12	5	5	7
6	Chandpur-Chitpur.	...	26,289	20,185	46,474	18	...	1	...	...	...	...	...	...	...	3	1	...	...	3	...	1	...	...	...	8	9	7	16	16	13	31
7	Nizamat	...	20,333	15,918	32,451	15	...	...	...	...	...	...	...	...	...	10	3	...	...	...	...	...	3	...	...	...	9	13	21	13	13	23

CHAS. A. BENTLEY, Director of Public Health, Bengal.

CALCUTTA, the 30th August 1922.

Statement showing the daily gauge-readings of certain rivers at the stations named below for week ending Thursday,
the 14th September 1922.

Name of river and place where readings are taken.	Date.	Hour.	Reading on gauge.	Value of zero referred to P. W. D. datum.	Height above P. W. D. datum.	COMPARED WITH PREVIOUS DAY'S HEIGHT.		HEIGHT ABOVE P. W. D. DATUM OF SAME DATE IN—		Remarks.
						Rise.	Fall.	1921.	1920.	
Ganges ...	8th Sept. 1922	6 A.M. ...	126.80'	0.00'	126.80'	0.20'	...	124.40'	117.70'	
	8th "	6 " ...	27.70'	56.319'	84.019'	0.10'	...	82.169'	77.019'	
	8th "	8 hours ...	23.80'	4.896'	28.696'	0.10'	...	29.196'	26.596'	
Brahmaputra ...	8th "	8 A.M. ...	23.00'	135.18'	158.18'	...	0.30'	156.28'	160.58'	
	8th "	12 hours ...	38.80'	1.509'	40.309'	Steady		41.109'	41.709'	
	8th "	8 A.M. ...	18.20'	314.18'	332.38'	...	0.30'	329.68'	330.88'	
Meghna ...	"	6 hours ...	10.23'	1.61'	90.24'	0.08'		20.78'	20.78'	
	"	"	13.92'	1.61'	15.53'	1.17'	...	15.03'	13.86'	
	"	"	30.60'	1.509'	32.109'	0.05'	...	29.259'	31.009'	
Bhagirathi ...	8th "	7 A.M. ...	29.40'	- 8.62'	20.78'	Steady.		20.18'	19.88'	
	8th "	6 " ...	26.86'	1.509'	28.369'	0.15'	...	29.249'	19.969'	
	8th "	6 " ...	11.00'	92.58'	103.58'	...	1.00'	104.08'	99.58'	
Damodar ...	"	6-30 " ...	23.79'	- 5.59'	18.20'	...	0.04'	17.83'	17.53'	
Lakshya ...	8th "	6 " ...	14.80'	- 0.599'	14.201'	...	0.05'	13.801'	12.351'	
Madaripur Bil Route (Lower Kumar).	8th "	6 " ...								

Statement showing the daily gauge-readings of certain rivers at the stations named below for week ending Thursday, the 14th September 1922.

Name of river and place where readings are taken.	Date.	Hour.	Reading on gauge.	Value of zero referred to P. W. D. datum.	Height above P. W. D. datum.	COMPARED WITH PREVIOUS DAY'S HEIGHT.		HEIGHT ABOVE P. W. D. DATUM ON SAME DATE IS—		Remarks.
						Rise.	Fall.	1921.	1922.	
Brahmaputra	Monghyr ...	9th Sept. 1922	127.00'	0.00'	127.00'	0.20'	...	124.10'	117.50'	
	Rajmahal ...	9th " "	27.95'	56.319'	84.269'	0.25'	...	81.769'	76.769'	
	...	9th " "	23.80'	4.896'	28.696'	Steady	...	28.896'	26.696'	
Meghna	Gauhati ...	9th " "	38.70'	1.509'	40.209'	...	0.10'	40.809'	41.709'	
	Sirajganj ...	12 hours	17.80'	314.18'	331.98'	...	0.40'	329.48'	330.18'	
	Dibrugarh ...	8 A.M.	19.25'	1.61'	20.86'	...	0.08'	20.61'	20.69'	
Meghna	Bhairab Bazar ...	6 hours	13.08'	1.61'	14.69'	...	0.83'	14.61'	14.11'	
	Chandpur ...	9.20 "	30.75'	1.509'	32.259'	...	...	29.159'	30.909'	
	Fenchuganj ...	7 "	29.40'	-8.62'	20.78'	Steady	...	19.98'	19.78'	
Dhaleswari	Sabhar ...	7 A.M.	27.14'	1.509'	28.649'	0.28'	...	29.009'	20.039'	
Bhagirathi	Swarupganj ...	6 " "	11.25'	92.58'	103.83'	0.25'	...	102.91'	98.08'	
Damodar	Edilpur ...	6 " "	23.92'	-5.59'	18.33'	0.12'	...	17.58'	17.70'	
Lakhya	Narayanganj ...	6.30 " "	14.85'	-0.599'	14.251'	0.05'	...	13.701'	12.501'	
Madaripur Bil Route (Lower Kumar).	Takerhat ...	6 "								

Statement showing the daily gauge-readings of certain rivers at the stations named below for week ending Thursday, the 14th September 1922.

Name of river and place where readings are taken.	Date.	Hour	Reading on gauge.	Value of zero referred to P. W. D. datum.	Height above P. W. D. datum.	COMPARISON WITH PREVIOUS DAY'S HEIGHT.		HEIGHT ABOVE P. W. D. DATUM ON SAME DATE IN—		Remarks.
						Rise.	Fall.	1921.	1920.	
Ganges	10th Sept. 1922	6 A.M.	127.30'	0.00'	127.30'	0.30'	...	123.70'	117.50'	
	10th "	6 "	28.05'	56.319'	84.369'	0.10'	...	81.369'	77.069'	
	10th "	8 hours	23.90'	4.896'	28.796'	0.10'	...	28.596'	28.796'	
Brahmaputra	10th "	8 A.M.	22.40'	1.35.18'	157.58'	...	0.30'	156.98'	159.28'	
	10th "	12 hours	38.60'	1.509'	40.109'	...	0.10'	40.609'	41.609'	
	10th "	8 A.M.	17.70'	31.4.18'	331.88'	...	0.10'	330.88'	329.78'	
	10th "	8 A.M.	19.25'	1.61'	20.86'	Steady	...	20.61'	20.69'	
Dhaleswari	10th "	7 A.M.	13.17'	1.61'	14.78'	0.08'	...	14.19'	14.36'	
	10th "	7 "	30.85'	1.509'	32.359'	0.10'	...	29.109'	30.759'	
	10th "	7 A.M.	29.40'	- 8.62'	20.78'	Steady	...	19.68'	19.88'	
	10th "	6 "	27.27'	1.509'	28.779'	0.13'	...	28.779'	19.839'	
Bhagirathi	10th "	6 "	9.75'	92.58'	102.33'	...	1.50'	100.91'	98.66'	
Damodar	10th "	6 "	23.92'	- 5.59'	18.33'	Steady	...	17.33'	17.87'	
Lakhya	10th "	6-30 "	14.90'	- 0.599'	14.301'	0.05'	...	13.601'	12.601'	
Madaripur lil Route (Lower Kumar).	10th "	6 "								

Statement showing the daily gauge-readings of certain rivers at the stations named below for week ending Thursday,
the 14th September 1922.

Name of river and place where readings are taken.	Date.	Hour.	Reading on gauge.	Value of zero referred to P. W. D. datum.	Height above P. W. D. datum.	COMPARED WITH PREVIOUS DAYS HEIGHT.		HEIGHT ABOVE P. W. D. DATUM ON SAME DATE IN--		Remarks.
						Rise.	Fall.	1921.	1922.	
Brahmaputra	11th Sept. 1922	6 A.M.	...	...	127.40'	0.10'	...	123.50'	118.50'	
	11th "	6 "	...	56.319'	84.519'	0.15'	...	81.119'	77.569'	
	11th "	8 hours	...	4.896'	28.696'	...	0.10'	28.396'	26.696'	
	11th "	...	21.90'	135.18'	157.08'	...	0.50'	157.38'	158.38'	
Meghna	11th "	8 A.M.	17.40'	314.18'	331.58'	...	0.20'	331.78'	329.38'	
	11th "	6 "	19.17'	1.61'	20.78'	...	0.08'	20.44'	20.86'	
	11th "	10.30 "	13.00'	1.61'	14.61'	...	0.17'	13.86'	14.36'	
	11th "	7 "	30.30'	1.509'	32.409'	0.05'	...	29.009'	30.659'	
Dhaleswari	11th "	7 A.M.	29.40'	-8.62'	20.78'	Steady		19.43'	19.88'	
	11th "	6 "	27.29'	1.509'	28.799'	0.02'	...	28.649'	21.329'	
	11th "	6 "	9.17'	92.58'	101.75'	...	0.58'	100.33'	108.83'	
	11th "	6.30 "	23.83'	-5.59'	18.24'	...	0.08'	17.12'	17.99'	
Madaripur Bil Route (Lower Kumar).	11th "	6 "	14.90'	-0.599'	14.301'	Steady		13.501'	12.701'	

Statement showing the daily gauge-readings of certain rivers at the stations named below for week ending Thursday, the 14th September 1922.

Name of river and place where readings are taken.	Date.	Hour.	Reading on gauge.	Value of zero referred to P. W. D. datum.	Height above P. W. D. datum.	COMPARED WITH PREVIOUS DAY'S HEIGHT.		HEIGHT ABOVE P. W. D. DATUM OF SAME DATE IN—		Remarks.
						Rise.	Fall.	1921.	1920.	
Ganges ...	12th Sept. 1922	6 A.M. ...	127.30'	0.00'	127.30'	...	0.10'	123.50'	118.80'	
	12th "	6 "	28.25'	56.319'	84.569'	0.05'	...	81.119'	78.619'	
	12th "	8 hours ...	23.70'	4.896'	28.596'	...	0.10'	28.196'	26.796'	
Brahmaputra ...	12th "	8 A.M. ...	21.30'	135.18'	156.48'	...	0.60'	157.68'	157.88'	
	12th "	12 hours ...	38.30'	1.509'	39.809'	...	0.20'	41.109'	41.709'	
	12th "	8 A.M. ...	17.10'	314.18'	331.28'	...	0.30'	342.08'	329.38'	
Meghna ...	12th "	6 "	12.67'	1.61'	20.78'	...	0.33'	20.36'	20.90'	
	12th "	7 "	30.95'	1.509'	32.459'	0.05'	...	28.959'	30.609'	
	12th "	7 A.M. ...	29.40'	- 8.62'	20.78'	Steady		19.38'	19.88'	
Bhagirathi ...	12th "	6 "	27.30'	1.509'	28.809'	0.01'	...	28.439'	23.549'	
Damodar ...	12th "	6 "	7.75'	92.58'	100.33'	...	1.42'	105.08'	105.33'	
Lakhya ...	12th "	6-30 "	23.75'	- 5.59'	18.16'	...	0.08'	16.93'	18.12'	
Madaripur Bil Route (Lower Kumar).	12th "	6 "	14.85'	- 0.599'	14.251'	...	0.05'	13.401'	12.701'	

Statement showing the daily gauge-readings of certain rivers at the stations named below for week ending Thursday, the 14th September 1922.

Name of river and place where readings are taken.	Date.	Hour.	Reading on gauge.	Value of zero referred to P. W. D. datum.	Height above P. W. D. datum.	COMPARED WITH PREVIOUS DAY'S HEIGHT.		HEIGHT ABOVE P. W. D. DATUM ON SAME DATE IN—		Remarks.
						Rise.	Fall.	1921.	1922.	
Brahmaputra	Monghyr ...	13th Sept. 1922	6 A.M. ...	127.20'	0.00'	...	0.10'	123.60'	119.10'	
	Rajmahal ...	13th "	6 "	28.35'	56.319'	0.10'	...	81.019'	78.819'	
	Goalundo ...	13th "	8 hours ...	23.60'	4.896'	...	0.10'	28.096'	26.996'	
Meghna	Seraj ...	13th "	12 hours ...	20.90'	135.18'	...	0.40'	158.58'	156.78'	
	Dibrugarh ...	13th "	8 A.M. ...	38.10'	1.509'	...	0.20'	41.509'	42.109'	
	Bhairab Bazar ...	13th "	6 hours ...	16.90'	314.18'	...	0.20'	332.38'	330.28'	
Dhaleswari	Chandpur ...	13th "	19.08'	1.61'	20.69'	...	0.08'	20.19'	20.94'	
	Fenchuganj ...	13th "	12.67'	1.61'	14.28'	Steady	Steady	13.28'	14.86'	
	Sabhar ...	13th "	30.95'	1.509'	32.459'	Steady	Steady	28.909'	30.309'	
Bhagirathi	Swarupganj ...	13th "	29.30'	-8.62'	20.68'	...	0.10'	19.18'	19.98'	
	Edilpur ...	13th "	27.29'	1.509'	28.799'	...	0.01'	28.369'	25.499'	
	Narayanganj ...	13th "	6.75'	92.58'	99.33'	...	1.00'	106.83'	103.25'	
Madaripur Bil Route (Lower Kumar).	Takerhat ...	13th "	23.60'	-5.59'	18.01'	...	0.14'	16.83'	18.16'	
	...	13th "	14.80'	-0.599'	14.201'	...	0.05'	13.251'	12.701'	

Statement showing the daily gauge-readings of certain rivers at the stations named below for week ending Thursday, the 14th September 1922.

Name of river and place where readings are taken.	Date.	Hour.	Reading on gauge.	Value of zero referred to P. W. D. datum.	Height above P. W. D. datum.	COMPARED WITH PREVIOUS DAY'S HEIGHT.		HEIGHT ABOVE P. W. D. DATUM ON SAME DATE IN--		Remarks.
						Rise.	Fall.	1921.	1920.	
Ganges ...	Monghyr ...	14th Sept. 1922	6 A.M. ...	126.80'	0.00'	126.80'	0.40'	123.90'	118.70'	
	Rajmahal ...	14th "	6 "	28.25'	56.319'	84.569'	0.10'	81.119'	78.769'	
	Goalundo ...	14th "	8 hours ...	23.50'	4.896'	28.396'	0.10'	27.996'	27.396'	
Brahmaputra	Gauhati ...	14th "	8 A.M. ...	20.20'	135.18'	155.38'	0.70'	159.08'	155.68'	
	Sirajganj ...	14th "	12 hours ...	37.90'	1.509'	39.409'	0.20'	41.709'	42.509'	
	Dibrugarh ...	14th "	8 A.M. ...	16.30'	314.18'	330.48'	0.60'	333.38'	330.28'	
Meghna	Fenchuganj ...	14th "	12 "	19.00'	1.61'	20.61'	0.08'	20.19'	20.91'	
	Fenchuganj ...	14th "	7 "	12.42'	1.61'	14.03'	0.25'	13.11'	15.36'	
	Fenchuganj ...	14th "	7 "	30.95'	1.509'	32.459'	Steady	28.809'	30.259'	
Dhaleswari	Sabhar ...	14th "	7 A.M. ...	29.20'	-8.62'	20.58'	0.10'	19.18'	19.98'	
	Swarupganj ...	14th "	6 "	27.22'	1.509'	28.729'	0.07'	28.519'	26.489'	
	Edilpur ...	14th "	6 "	6.25'	92.58'	98.83'	0.50'	103.58'	102.56'	
Laknya ...	Narayanganj ...	14th "	6.30 "	23.44'	-5.59'	17.85'	0.17'	16.89'	18.33'	
	Takerhat ...	14th "	6 "	14.70'	-0.599'	14.101'	0.10'	13.151'	12.851'	
	Madaripur Bil Ronte (Lower Kumar).	14th "	6 "	14.70'	-0.599'	14.101'	0.10'	13.151'	12.851'	

Statement showing the gauge-readings at Dacca Water-works station on the river Buriganga for the week ending 2nd September 1922.

Date.	At 7 A.M.	AT HIGHEST WATER.		AT LOWEST WATER.		At 5 P.M.	REMARKS.
		Time.	Readings.	Time.	Readings.		
1922.							
27th Aug.	67.5	...	...	...	...	67.5	
28th " "	67.6	...	...	...	...	67.65	
29th " "	67.7	...	...	...	...	67.6	
30th " "	67.5	...	...	...	...	67.4	
31st " "	67.3	...	...	...	...	67.25	
1st Sept. ...	67.16	...	...	...	...	67.1	
2nd " "	67.0	...	...	...	...	67.0	

Notable high and low water-levels of previous years.

					High.
27th August	1906	...	...	...	70.5
5th September	1909	...	...	...	67.86
10th August	1910	...	...	...	69.86
1st "	1911	...	...	...	68.46
13th "	1912	...	...	...	67.16
31st "	1915	...	...	...	69.7
18th "	1916	...	...	...	68.1
12th "	1917	...	...	...	67.1
31st "	1918	...	...	...	69.12
2nd "	1919	...	...	...	66.8
8th September	1920	...	...	...	66.9
28th July	1921	...	...	...	68.4
					Low.
23rd February	1907	...	...	...	51.06
18th "	1908	...	...	...	51.06
12th March	1912	...	...	...	51.06
6th "	1914	...	...	...	50.60
22nd February	1915	...	...	...	50.60
15th "	1916	...	...	...	50.60
3rd March	1917	...	...	...	51.0
21st February	1918	...	...	...	51.40
26th "	1919	...	...	...	50.4
18th "	1920	...	...	...	50.9
19th "	1921	...	...	...	50.9

N.B.—Zero of the gauge at Dacca Water-works = -48.61 with reference to P.W. D datum.

CALCUTTA, the 8th September 1922.

B. L. SUBARWAL, *Executive Engineer,*
Khulna Division.

Statement of weekly gauge-readings on the river Ganges at Rampur. Boalia for the week ending 9th September 1922.

Date.	Hour.	Height of surface above zero.	Height of surface above P. W. D. datum.	Height of surface above P. W. D. datum on the same date last year.	Remarks.
1922.					
3rd September	8 A.M.	60.70	60.70	60.70	P. W. D. datum 6.25 ft. above—Kidderpore old dock sill.
4th "	8 "	60.75	60.75	60.75	
5th "	8 "	60.85	60.85	60.80	B. M. on College step 64.93
6th "	8 "	61.00	61.00	60.80	Zero value of gauge 0.00.
7th "	8 "	61.05	61.20	60.70	
8th "	8 "	61.20	61.30	60.40	
9th "	8 "	61.30			

			Old value.	According to P. W. D. datum.
The previous year	Highest water-level	on 7th September 1921	60.80	
Ditto	Lowest "	on 27th and 28th April and 9th May 1922	61.70	
Record	Highest "	69.25 on 26th August 1879	64.41	
Do.	Ditto "	69.08 on 9th September 1885	64.27	
Do.	Ditto "	68.20 on 26th August 1906	63.47	
Do.	Ditto "	68.21 on 26th August 1890	63.40	
Do.	Lowest "	37.68 on 26th April 1884	32.82	
Do.	Ditto "	38.13 on 14th and 15th April 1888	33.82	
Do.	Ditto "	39.02 on 21st and 22nd April 1897	34.21	
Do.	Ditto "	39.28 on 6th and 7th May 1908	34.47	

N.B.—The gauge-readings commenced from the 1st August 1887.

JADAB CHANDRA GHOSH, for Subdivisional Officer,
I. D., Jangipur.
BOALIA, the 9th September 1922.

Statement of weekly gauge-readings on the rivers Ganges and Brahmaputra at Rajbari for the week ending 9th September 1922.

Month and date.	Hour.	Height of surface above or below zero of gauge.	Height of surface above mean sea-level.	Height of surface above mean sea-level on same date last year.	Remarks.
1922.					
3rd September	7 A.M.	23.7	23.7	24.3	Zero is placed at mean sea-level. The bench-mark for the gauge is on a pucca pillar between the passenger ghat and Chaudpore ghat. Its reduced level is 26.84.
4th "	7 "	23.8	23.8	24.4	
5th "	7 "	23.8	23.8	24.5	
6th "	7 "	23.7	23.7	24.6	
7th "	7 "	23.7	23.7	24.5	
8th "	7 "	23.8	23.8	24.8	
9th "	7 "	23.8	23.8	24.9	

The previous year	Highest water-level	on 27th July 1921.
Ditto	Lowest "	on 19th February and 4th March 1921.
Record (H. F. in Brahmaputra and Ganges)	Highest "	on 28th August 1906.
Record (average flood in Brahmaputra and Ganges)	Ditto "	on 30th and 31st August 1893.
Record (H. F. in Brahmaputra and Ganges)	Ditto "	on 11th to 17th and 31st August 1889 and on 3rd September 1889.
Record (H. F. in Brahmaputra only)	Ditto "	on 31st July 1900.
Record	Lowest "	8th February 1914.
Do.	Ditto "	13th March 1908.
Do.	Ditto "	on 21st to 24th February 1884 and 8th to 10th March 1884.
Do.	Ditto "	9th to 11th March 1885.
Do.	Ditto "	16th, 17th and 29th to 31st March 1901.

N.B.—The gauge-readings commenced from October 1884.

R. C. GHOSH, for Subdivisional Officer,
P. W. D., Faridpore.
RAJBARI, the 9th September 1922.

GOVERNMENT OF BENGAL, IRRIGATION DEPARTMENT.

Approximate return of traffic on the Circular and Eastern Canals for the week ending Saturday, the 9th September 1922, as compared with the corresponding week of the previous year.

Nature of cargo.	WEEK ENDING SATURDAY, THE 9TH SEPTEMBER 1922.			WEEK ENDING SATURDAY, THE 10TH SEPTEMBER 1921.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
		Mds.	Rs.		Mds.	Rs.
Rice and paddy ...	226	39,700	604	313	48,584	837
Jute ...	42	14,695 ^c	177	45	11,975 [†]	155
Firewood ...	82	40,625	601	60	45,800	729
Other articles ...	1,093	276,750	2,748	858	202,972	2,176
Total ...	1,443	371,770	4,130	1,276	309,311	3,897
Empty boats and rafts ...	759	...	1,939	545	...	1,685
GRAND TOTAL ...	2,202	371,770	6,069	1,821	309,311	5,582

^c Weight by official measurement ... Mds. 17,602[†]
[†] Ditto ditto ... Mds. 14,250

T. C. PHATTACHARYA,
Assistant Secretary to the Government of Bengal.

CALCUTTA, the 14th September 1922.



The Calcutta Gazette

WEDNESDAY, SEPTEMBER 27, 1922.

SUPPLEMENT.

Official Papers.

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DEPARTMENT OF AGRICULTURE, BENGAL.

First Forecast of the Winter Rice Crop of Bengal, 1922-23.

[Note.—On an average of the five years ending 1920-21, the crop has represented some 12.7 per cent. of the total area under winter rice in British India.]

Character of the season.—The season at the close of the year towards the end of May accelerated the preparation also somewhat recovered from the evil effects of the season. The monsoon which became established as broadcast paddy, facilitated the transplantation of *ama* deep-water paddy in Eastern Bengal. In July monsoon was highly beneficial to all varieties of the crop in the operations. Except in North Bengal the rain was markedly so in the Western districts where the crops were flooded. The rise of the rivers was also responsible for the lowlands in the Eastern and Northern districts are favourable. The prospects so far are good for the broadcast paddy.

Area.—According to the figures returned by the district officers, the total area under winter rice is 15,574,500 acres, as compared with 15,574,500 acres in the corresponding and final forecasts of last year.

Outturn.—From the summary of the district returns, it is expected that a bumper crop, six districts normal, 17 districts 75 to 80 per cent. of the normal crop. According to the estimates the outturn works up to 92 per cent. as against 88 and 96 per cent. in the first and the final forecasts of the last year.

under Winter Rice in Bengal (under rice in British India.)

was dry, but good rainfall in the beginning of the year. The broadcast paddy in the beginning of the year June further improved the growth of the paddy helped on the growth of the paddy rainfall alternating with sun-drying weeding and transplanting. August was excessive and the rain fell badly in places from the damage to broadcast paddy the present weather conditions are favourable for the present variety and fair for the outturn.

According to the district Officers, the total area under winter rice is 15,574,500 and 15,850,200 acres.

Depended it will be seen one estimate to 80, and four districts the estimates the provincial estimates the normal respectively.

Director

NS,
Agriculture, Bengal.

CAMP CALCUTTA,
The 19th September 1922.

APPENDIX I.

First Forecast of the Winter Rice Crop of Bengal, 1922-23.

District.	Estimated normal area under winter rice.	Estimated area under winter rice.		Estimated outturn as a percentage of the normal yield per unit of area.		Date by which the sowing of broadcasted winter rice commenced this year and whether that date was early, normal or late.	Date by which the transplanting of winter rice commenced this year and whether that date was early, normal or late.	Remarks by District Officers.
		Last year (1921-22).	This year (1922-23).	Last year.	This year.			
	Acres.	Acres.	Acres.					
24 Parganas ...	1,041,500	736,100	713,800	92	83	May. Normal	July. Normal	The decrease in area is due to excessive rain in August which submerged many fields where transplantation was not possible. The weather was favourable at sowing time, but at the time of transplantation it became unfavourable owing to excessive rain. It is not favourable now. Damage to the extent of two annas in abad tracts and eight annas in lowlands is reported from Basirhat and Diamond Harbour subdivisions.
Nadia ...	136,800	213,400	211,600	55	58	April and May. Normal.	July. Normal	The decrease in area is due to want of rain from the time of sowing till the end of May, and consequently the weather condition proved unfavourable for germination and growth of the crop. From June to August the weather has been favourable. Some damage was caused by flood in August.
Murshidabad ...	351,400	398,000	307,800	76	92	May. Normal	June to July. Normal.	The increase in area is due to good rainfall at the sowing time. Character of the weather has been good. Excessive rainfall has affected the growth to a small extent and slight damage has been caused by flood.
Jessore ...	568,100	463,900	476,000	63	75	April and May. Normal.	June and July. Late.	The increase is due to some jute and autumn rice lands having been brought under winter rice owing to the very late rainfall. Weather has not been favourable. About 50 per cent. of the crop was damaged by heavy rain and flood in the Narail and Magura subdivisions.
Khulna ...	626,200	731,100	778,100	93	100	June. Normal	End of July. Late.	The increase in area is due to good embankment and favourable weather. The rainfall of August has been favourable to the growth of the crop. Slight damage has been done to the crop on low-lying tracts owing to accumulation of rain-water.
Bardham ...	674,800	666,700	712,800	75	92	Middle of May. Normal.	End of June. Early.	The increase in area is due to early and sufficient rainfall. The weather has been favourable to the crop and a good outturn is expected.
Birbhum ...	604,700	529,800	536,000	89	100	June. Normal	First week of July.	The weather has been favourable.
Bankura ...	644,000*	644,000	640,000		117	End of June. Normal.	Early in July. Normal	The decrease in area is due to recent flood and heavy rainfall. The weather has been good. Some damage has been done by flood.
Midnapore ...	1,537,100	1,398,600	1,462,300		93	June. Somewhat late.	July. Normal	The increase in area is due to increased cultivation. The weather has been fair. About 65,000 acres of area under the crop in Ghatal and 28,000 acres in Tangluk excluding the area given were destroyed by floods in June and August. The outturn is below the normal owing to unfavourable rains.
Hooghly ...	376,700	197,300	204,600		92	Sadar—Middle of July. Late. Serampore—Beginning of July. Late. Arambagh—May. Normal.	Sadar—August. Normal. Serampore—Beginning of July. Late. Arambagh—June. Normal.	The increase in area is due to favourable weather condition and high price of rice. The weather has been favourable on the whole up till now. It was unfavourable at sowing time in Sadar for want of rain and for a time in Arambagh owing to flood which has caused some damage.
Howrah ...	117,000*	128,400	97,400		54	Beginning of June. Late.	Middle of July. Late.	The decrease in area is due to want of rainfall at the sowing time. The weather has not been favourable. Heavy rainfall and flood during the transplanting period caused damage to a great extent.
Rajahmabi ...	632,700	675,700	735,600		92	By the latter part of May. Late.	Middle of July. Normal.	The increase in area is due to increased cultivation owing to fall in the price of jute and to favourable weather condition at sowing time. The weather has been favourable. Damage by flood to the extent of 8 per cent. is reported from Nator and Naogaon subdivisions.
Dinajpur ...	1,120,300	939,300		100	88	Middle of May. Normal.	Middle of June. Normal.	The increase in area is due to timely and adequate rainfall during the transplantation period. The effects of weather have been favourable.

* Revised.

District.	Estimated normal area under winter rice.	Estimated area under winter rice.		Estimated outturn as a percentage of the normal yield per unit of area.		The date by which the sowing of broadcast winter rice commenced this year and whether that date was early, normal or late.	Date by which the transplanting of winter rice commenced this year and whether that date was early, normal or late.	Remarks by District Officers.
		Last year 1921-22.	This year 1922-23.	Last year.	This year.			
	Acres.	Acres.	Acres.					
Jalpaiguri ...	467,600	392,600	411,000	100	92	March. Normal.	July. Normal	The weather has been fairly favourable.
Darjeeling ...	50,900	26,800	19,100	117	92	April. Normal.	First week of July. Normal.	The decrease in area is due to insufficient rainfall. The weather has been fairly favourable.
Rangpur ...	822,300	617,900	624,400	135	85½	Middle of May. Normal.	Beginning of July. Normal.	The increase in area is due to favourable weather. Insufficient rain in the latter part of July has retarded the transplantation of the crop to some extent. Want of rain in August is expected to cause the outturn to fall below the normal.
Dogra ...	202,000	446,000	450,000	84	100	March. Normal.	July. Normal	The decrease in area is due to decrease of area under jute. Weather condition has been good all through.
Pabna ...	666,000	400,000	399,000	83	83	Latter part of April. Late.	Beginning of September.	The weather was favourable for cultivation, but continuous drought after sowing retarded the growth of the crop and caused damage to the extent of 17 per cent.
Malda ...	236,300	242,700	237,000	79	92	Middle of June. Normal.	July. Normal	The weather has been favourable for transplanted paddy but unfavourable for broadcast paddy which suffered damage at the sowing time for want of rain and afterwards owing to continuous rain and flood.
Dacca ...	647,900	702,900	696,900	90	87	April. Late ...	First part of July. Transplantation is still continuing.	Prolonged drought retarded the growth of the crop after sowing. The weather has since been favourable. Sudden flood has damaged the crops in a few tracts.
Mymensingh ...	1,433,800	1,429,000†	1,411,800	117	80	April to June. Normal.	July August. Normal.	The decrease in area is due to want of timely rainfall. The weather was not favourable at the sowing time. The effect of weather on the growth of the crop has been fair. About 10 per cent. damage is reported from the Kishoreganj subdivision owing to flood in clear lands.
Faridpur ...	770,100	761,400	745,700	103	68	March and April. Normal.	...	The decrease in area is due to drought at the sowing time. Weather has not been favourable. The outturn will fall below the normal as considerable damage has been done to the crop owing to sudden rise of water and heavy rain.
Bakarganj ...	1,200,000	1,342,900	1,000,000	100	100	May. A little late.	July. Normal	The decrease in area is due to the fact that the transplantation has not been finished. Want of sufficient rain at the beginning has delayed the sowing a little and subsequent heavy rain in June followed by flood in July has caused some damage to the young seedlings which are, however, recovering. The present condition is fair and a normal outturn is expected.
Chittagong ...	418,400	421,800	422,400	100	92	July. Late.	August. Late	The weather has been fairly favourable. The outturn is anticipated to fall below the normal owing to damages done by saline water at the time of the last cyclone in the Cox's Bazar subdivision.
Tippah ...	787,000	794,400	806,400	133	100	April. Normal.	August. Normal.	The increase in area is due to decrease in jute cultivation. Drought prevailed at sowing time, but subsequent conditions were favourable except for some damage caused by flood in Sadar and Chandpur subdivisions.
Noakhali ...	705,000	630,000	630,000	100	100	April May. Normal.	August. Normal.	The weather has been favourable and a normal outturn is expected.
Chittagong Hill Tracts.	47,800	46,000	46,500	75	83	Middle of June. Normal.	July. Normal.	The increase in area is due to gradual development of plough cultivation. The weather has been fairly favourable and the outturn is expected to be better than last year.
Total Bengal ...	17,499,600	15,840,300	15,674,600	100½	92			

* Director's estimate. | † Revised

APPENDIX II.

Statement showing the normal and actual rainfall (in inches) in each district during May to August 1922.

Districts.	MAY.		JUNE.		JULY.		AUGUST.	
	Normal.	Actual.	Normal.	Actual.	Normal.	Actual.	Normal.	Actual.
1. 24-Parganas	8.53	2.98	11.33	21.76	13.30	12.30	12.21	18.43
2. Nadia	6.80	3.39	9.85	19.96	10.17	6.70	10.32	9.24
3. Murshidabad	8.33	3.60	10.48	19.44	10.94	10.64	11.00	8.77
4. Jessore	7.86	2.79	11.94	21.90	10.86	10.05	10.76	17.46
5. Khulna	7.74	3.15	12.33	23.26	15.04	14.60	13.83	16.13
6. Burdwan	8.06	4.94	10.72	26.76	11.39	8.04	11.12	14.66
7. Birbham	4.33	2.72	10.42	18.24	12.42	11.04	11.75	9.65
8. Bankura	4.35	1.94	9.75	27.73	11.92	9.31	11.10	20.25
9. Midnapore... ..	4.97	2.74	11.25	19.23	12.47	9.76	11.00	14.83
10. Hooghly	8.67	3.02	9.93	22.68	12.06	8.96	11.40	17.86
11. Howrah	5.86	4.25	11.76	24.19	12.92	12.77	11.17	25.96
12. Rajshahi... ..	6.06	2.20	11.06	18.61	11.60	12.12	10.42	7.77
13. Dinajpur	7.10	3.63	14.63	26.66	16.01	21.67	14.31	13.09
14. Jalpaiguri	16.27	18.05	22.08	23.07	32.81	24.75	28.93	26.26
15. Darjeeling... ..	9.19	9.64	22.41	24.72	21.24	23.93	26.20	25.03
16. Raipur	11.11	5.23	16.96	20.73	14.63	13.03	12.21	13.20
17. Bogra	8.26	2.97	12.73	19.69	12.71	16.47	12.02	12.89
18. Pabna	7.69	4.06	11.67	14.66	11.10	8.08	10.95	9.64
19. Malda	4.86	2.81	10.64	22.44	11.74	12.11	11.11	9.89
20. Dacca	10.11	3.2	14.43	16.04	12.66	10.02	12.66	17.71
21. Mymensingh	11.98		17.80	20.79	16.27	18.96	16.28	14.47
22. Faridpur	10.21		16.03	22.26	22.80	11.01	12.08	14.46
23. Baharganj... ..	9.28		18.16	20.79	16.14	16.19	16.25	16.67
24. Chittagong	10.34		22.32	24.60	26.80	21.07	22.79	26.67
25. Tippera	11.32		16.05	16.96	12.71	10.12	14.01	14.41
26. Noakhali	11.02		21.16	20.24	22.78	19.94	22.49	22.11
27. Chittagong Hill Tracts... ..	10.21		16.11	28.93	20.95	14.66	17.67	26.76

FINAL FORECAST OF THE JUTE CROP, 1922.

Consolidated statement for Bengal, Bihar and Orissa, and Assam.

Area.—The estimated area for the three Provinces is 1,455,806 acres, a decrease of 62,552 acres on last year's figures.

Yield.—It is estimated that the crop will yield 4,236,828 bales of jute, an increase of 171,519 bales on last year's returns.

Remarks.—Last year's estimates for Assam have been revised by the local Department.

The consolidated figures are as follows :—

PROVINCE.	AREA IN ACRES.			YIELD IN BALES.		
	1921.	1922.	Difference.	1921.	1922.	Difference.
Bengal (including Cooch Behar).	1,329,190	1,218,908	- 110,282	3,605,991	3,577,784	- 28,207
Bihar and Orissa ...	108,368	146,098	+ 37,730	304,918†	391,044†	+ 86,126
Assam ...	80,800*	90,800	+ 10,000	154,400*	268,000	+ 113,600
Total ...	1,518,358	1,455,806	- 62,552	4,065,309	4,236,828	+ 171,519

* Revised.

† Including Nepal.

The Departmental Final Forecasts for each of the three Provinces are appended.

G. EVANS,
Director of Agriculture, Bengal.

CAMP CALCUTTA,
The 21st September 1922.

APPENDIX.

Abstract Statement of Estimated Acreage and outturn of the jute crop, 1922.

(For Bengal, Bihar and Orissa and Assam consolidated.)

ACREAGE.								OUTTURN IN PALES.							
Of current year's crop.	Of previous year's crop.	Average of five preceding years (viz., 1916 to 1920).	Average of ten preceding years (viz., 1911 to 1920).	PERCENTAGE BY WHICH COLUMN 1 EXCEEDS (+) OR FALLS SHORT OF (-) AREA IN—			Estimated yield of current year.	YIELD OF PREVIOUS YEAR ACCORDING TO—		Average of five preceding years (viz., 1916 to 1920).	Average of ten preceding years (viz., 1911 to 1920).	PERCENTAGE BY WHICH COLUMN 8 EXCEEDS (+) OR FALLS SHORT OF (-) OUTTURN IN—			
				Column 2.	Column 3.	Column 4.		Crop forecast.	Trade statistics.			Column 9 (a).	Column 9 (b).	Column 10.	Column 11.
1	2	3	4	5	6	7	8	9(a)	9(b)	10	11	12	13	14	15
1,655,806	1,518,856*	2,657,300	2,800,800	- 4	- 45	- 45	4,220,838	4,068,800*	7,510,117	7,768,800	8,360,400	+ 4	- 44	- 45	- 49

*Revised.

DEPARTMENT OF AGRICULTURE, BENGAL.

Final Forecast of the Jute Crop of Bengal for 1922.

NOTE.—On an average of the five years ending 1920-21, the area under jute to which this forecast relates represents some 85·2 per cent. of the total area under jute in British India.

Season.—As indicated in the preliminary forecast, the weather was exceptionally dry during the earlier part of the year hampering sowing operations and seriously interfering with the growth of the early sown crop. In July seasonable rain fell with a slight excess in North Bengal and weeding operations were carried on favourably in the *deshi* districts. The late sown crop, on the other hand, fared well, especially on the high lands of East and North Bengal. The rise of the rivers towards the latter part of the month adversely affected the crop in certain low-lying areas and caused premature harvesting in those tracts. The rainfall in the first week of August was heavy in parts of West Bengal causing damage to the jute plants on low lands, the districts which suffered most being Murshidabad, Howrah and Midnapore. In Eastern Bengal good rainfall during this month facilitated the steeping and washing operations generally.

Condition of the crop.—During the early part of the year the low land crop in Eastern and Northern Bengal suffered through unusually dry weather, but subsequently, as the result of seasonable rainfall, the crop recovered from the effects of the prolonged drought. The high land crop, on the other hand, continued to prosper up till the harvesting period. The condition in the *deshi* districts is poor, more particularly in certain low-lying tracts, but elsewhere prospects are generally fair.

Acreage.—The area under jute is returned at 1,218,908 acres, a decrease of 110,282 acres or 8 per cent., as compared with last year's final figures. The decrease is attributed mainly to drought at the sowing season and in a minor degree to the low price obtained for the three preceding crops; and also to the comparatively high price of food-stuffs which induced cultivators to grow more paddy in place of jute.

Outturn.—As in previous years, the percentage figures are calculated on the basis of divisional normals, which remain as follows:—Dacca and Chittagong 3·7 each, Rajshahi 3·5, Presidency and Burdwan 3·2 bales per acre.

The total outturn of the crop is returned at 3,577,784 bales of 400 lbs. as against 3,605,991 bales in last year's forecast, a decrease of 28,207 bales.

G. EVANS,
Director of Agriculture, Bengal.

CAMP CALCUTTA,
The 21st September 1922.

APPENDIX I.

Final Forecast of the Jute Crop of Bengal, 1922.

DISTRICT.	ESTIMATED AREA UNDER JUTE.		ESTIMATED OUTTURN AS A PERCENTAGE OF THE NORMAL YIELD PER UNIT OF AREA.		ESTIMATED TOTAL YIELD.		Date by which harvesting generally commenced, and whether that date was early, normal or late.	REMARKS BY DISTRICT OFFICERS.
	Last year.	This year.	Last year.	This year.	Last year.	This year.		
1	2	3	4	5	6	7	8	9
24-Parganas ...	Acres. 24,178	Acres. 20,436	75	81	Bales. 88,973	Bales. 81,413	End of August. Normal.	The increase in area is due to rise in price of jute and to a partial failure of sugarcane crop. The increase in area over the preliminary forecast is due to rechecking of the figures.
Nadia ...	33,431	37,383	87	86	60,829	47,923	Ditto	The decrease in area is due to unfavourable weather conditions at sowing time, to low price of jute in preceding years and to preference given to the cultivation of paddy.
Murshidabad ...	6,814	7,413	68.4	81	13,329	13,114	End of August. Late	Owing to late sowing followed by heavy rains, the yield per acre is below the normal. Heavy floods in the drier areas did considerable damage to the crop.
Jessore ...	43,579	26,631	94	68.4	180,787	66,541	End of July to August. Early.	The decrease in area as compared with the preliminary forecast is due to floods in Magura and Narail subdivisions and some jute lands being resown with paddy. The decrease in outturn is due to stunted growth of the plants which were sown late and harvested early.
Khulna ...	4,941	3,941	73	74	11,483	8,333	Latter part of August. Normal.	The decrease in area is due to unfavourable weather in the sowing season and to low price of jute and high prices of food-grains. The decrease in area below the first forecast is due to damage by flood in Satkhira. The decrease in outturn is due to want of timely rainfall and also to excessive rain during the latter part.
Burdwan ...	1,343	1,090	74.37	80	3,198	3,790	Last week of August	The decrease in area is due to unfavourable condition of the market and to late rain at the beginning and to continuous heavy showers afterwards interfering with the normal growth of the crop and resulting in a low outturn.
Midnapore ...	5,611	4,030	66.90	84.4	11,839	7,036	September. Late	The decrease in area is due to want of rain at sowing time and to subsequent floods in June and August.
Hooghly ...	18,968	10,339	80	71.87	1,633	36,974	Third week of August. Normal.	The decrease in area compared with last year is due to prolonged drought and to consequent want of soil moisture at sowing time interfering with the preparation of land and sowing. Since the preliminary forecast some area was ploughed up and resown with other crops. The decrease in outturn is due to incessant and heavy rainfall during the growing period and for want of weeding the crop at proper time.
Howrah ...	4,659	3,547	85	80	173	5,707	Beginning of September. Late	The large decrease in area and outturn is due to unfavourable weather conditions and to damage by floods.
Rajshahi ...	44,849	48,463	79	71	25,437	116,160	Middle of August. Normal.	The sowing was late this year for want of rain. The continuous rain in July and August was detrimental to the growth of the crop. Some damage by heavy rain and flood is reported from Nator subdivision. Hence the outturn is below the normal.
Dinajpur ...	43,647	34,117	86		84,079	63,667	By the middle of July Normal.	The decrease in area was due to continued drought at sowing time and to low price of jute. The outturn is below the normal owing to incessant rainfall during the growing time and to late sowing.
Jaipur ...	26,532	33,339	80		60,933	116,804	Middle of August. Normal.	The increase in area is due to expectation of a better price this year. The increase in outturn is due to favourable weather.

DISTRICT.	ESTIMATED AREA UNDER JUTE.		ESTIMATED OUTTURN AS A PERCENTAGE OF THE NORMAL YIELD PER UNIT OF AREA.		ESTIMATED TOTAL YIELD.		Date by which harvesting generally commenced, and whether that date was early, normal or late.	REMARKS BY DISTRICT OFFICERS.
	Last year.	This year.	Last year.	This year.	Last year.	This year.		
1	2	3	4	5	6	7	8	9
	Acres.	Acres.			Bales.	Bales.		
Darjeeling ...	1,485	1,688	75	87	2,765	4,156	End of August. Rather late.	
Rangpur ...	138,345	154,544	71.07	80.31	348,396	688,730	July Normal	The increase in area is due to high price of jute in the latter part of the last financial year and to the fact that the cultivators had found at last that they had not profited by giving up the cultivation of jute. Harvesting was, however, retarded in August owing to inadequate rainfall.
Bogra ...	50,600	46,320	82.8	91	145,733	144,344	Eastern side of river Karatwa (alluvial tract). Middle of July. Western side. End of July. Normal.	The decrease in area is mainly due to unfavourable weather at sowing time. But subsequent favourable condition more or less compensated it by increased outturn.
Pabna ...	63,620	74,254	61.4	84.3	141,017	346,732	Middle of July	The increase in area is due to high price of the fibre at the time of sowing. Continued drought and early flood adversely affected the crop. Sufficient rainfall in June and July, however, facilitated the growth and substantially improved the prospects.
Malda ...	7,470	6,800	44.3	47.7	11,580	10,830	By the end of August. Late.	The decrease in area is due to revision owing to total damage by flood water mainly in Nawabganj, Shitganj, Kaliachak and Harischandrapur thanas. The decrease in outturn is due to unfavourable weather at the beginning and to continuous heavy rain during the growing period which prevented weeding operation.
Dacca ...	140,000	130,000	79	75	410,000	368,000	July Normal	The decrease in area is due to low price of jute and to prolonged drought at the beginning. Where the crop was sown early, it suffered greatly for lack of moisture. The rainfall was favourable in June, but the rivers rose too quickly and did some damage to the crop in low-lying area. The crop also suffered from insect pests in some places. Hence the outturn is not satisfactory.
Mymensingh ...	332,293	399,096	80	91	987,794	984,182	End of July. Normal.	Since the end of May, the weather has been favourable.
Faridpur ...	143,000	89,000	84	72	443,300	324,300	End of July	The decrease in outturn is due to (1) drought at sowing time and for some time after, which stunted the growth of the crop; (2) to late sowing and (3) to sudden rise of water causing premature harvesting in some places.
Bakarganj ...	19,412	6,840	76	57.8	54,897	18,292	July. Early	The fall in outturn is due to insufficient rainfall at sowing time and to excessive rain afterwards which affected the growth of the crop. The sowing was late but harvesting was early owing to flood in July.
Chittagong ...	300	300	81	80	600		Week of August	The crop suffered from drought at the beginning but later on the weather was favourable for the growth of the crop.
Tippura ...	180,000	180,000	73	82	400,000	465,16	of July to ... Normal.	The increase in yield is due to favourable weather condition after sowing.
Noakhali ...	7,382	8,233	98	75	25,929	23,749	of July to ... Normal.	The increase in area is due to rise in price of jute. The outturn is below the normal owing to drought at the beginning and to heavy downpour afterwards.
Total for Bengal	1,316,043	1,196,541	...	...	3,594,645	3,596,736		
Add for Cooh Behar.	13,147	72,367	34.6	66	11,316	31,538	Middle of July to middle of August.	The increase in area is due to timely rainfall. The weather has been fairly favourable for the growth of the crop. Some damage was caused by hailstorm in May last.
GRAND TOTAL	1,329,190	1,268,908	...	...	3,605,961	3,628,274		

APPENDIX II.

Statement of rainfall in July and August each year from 1919 to 1922.

DISTRICT.	RAINFALL IN JULY.					RAINFALL IN AUGUST.				
	1919.	1920.	1921.	1922.	Normal.	1919.	1920.	1921.	1922.	Normal.
	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.
24 Parganas	14.82	14.85	9.91	12.80	12.80	10.87	10.08	17.18	18.48	12.31
Nadia	13.09	10.60	9.88	8.70	10.17	7.83	10.79	14.08	9.34	10.82
Murshidabad	10.92	10.91	9.83	10.64	10.34	8.06	9.80	12.41	8.77	11.00
Jessore	15.25	10.86	11.85	10.06	10.88	10.36	9.92	12.04	17.45	10.76
Khulna	20.88	16.46	11.65	14.90	15.04	16.41	11.19	18.00	18.13	12.88
Burdwan	10.71	10.74	11.63	8.04	11.29	10.11	10.02	12.14	14.85	11.12
Midnapore	10.23	16.27	12.16	9.78	12.47	16.07	10.93	15.28	14.83	11.00
Hooghly	11.84	11.26	8.81	6.98	12.06	12.48	11.89	17.90	17.88	11.40
Howrah	14.95	16.72	11.81	12.77	12.92	25.17	19.47	18.20	25.26	11.17
Rajshahi	17.16	8.94	8.36	12.12	11.60	10.80	7.12	11.91	7.77	10.48
Dinajpur	18.78	10.12	21.02	21.67	16.01	8.08	12.89	12.90	16.09	14.31
Jaipalguri	26.01	16.81	22.20	24.75	22.81	11.01	25.22	26.77	28.26	26.02
Darjeeling	24.46	20.61	27.56	22.93	21.24	17.09	17.40	25.25	25.03	26.20
Rangpur	16.12	8.07	27.16	15.03	14.83	5.23	19.26	9.07	12.20	12.31
Bogra	17.68	8.41	19.26	16.47	12.71	8.09	12.55	12.84	12.89	12.02
Pabna	14.82	8.26	11.48	8.08	11.10	12.67	10.09	12.84	8.84	10.95
Malda	21.22	10.44	11.23	12.11	11.74	12.85	10.08	11.29	9.89	11.11
Dacca	16.87	12.90	14.22	10.02	12.06	9.91	12.12	11.85	17.71	12.26
Mymensingh	21.26	12.20	22.46	18.96	16.27	10.85	18.22	12.88	14.47	8.6
Fariapur	20.08	12.06	12.76	11.01	12.20	14.06	9.15	10.96	14.85	12.08
Bakerganj	26.74	22.72	15.26	16.19	18.14	20.14	12.11	20.91	16.07	16.26
Chittagong	26.28	22.02	26.16	21.07	26.60	26.71	22.01	20.08	22.67	22.76
Tippera	16.42	12.19	16.84	10.12	12.71	12.74	14.75	11.93	16.41	14.01
Noakhali	27.74	22.72		19.04	22.78	22.18	19.24	24.20	22.11	22.49
Cooch Behar	26.90	16.65		22.62	24.68	8.61	28.86	15.68	24.92	21.22

NOTE.—The figures given above

are averages for all the rain registering stations in each district.

DEPARTMENT OF AGRICULTURE, BIHAR AND ORISSA.

Final Forecast of the Jute Crop of Bihar and Orissa, 1922.

NOTE.—On an average of the five years ending 1920-21, the area under jute to which the Bihar and Orissa forecast relates represents about 7·6 per cent. of the total area under jute in British India.

Acreage.—The final district returns of the seven jute-growing districts of the province show an area under jute of 146,098 acres or, in round numbers, 146,100 acres, as compared with 144,600 acres reported in the preliminary forecast, 1922, and 108,400 acres last year. The increase in area sown this year is mainly in Purnea, where it is attributed to the rise in the price of jute; but actual measurement of the area in 10 per cent. of the villages in Purnea indicates that the estimate may be too high by some 20,000 acres.

Weather conditions.—In March, there was no rain in the jute districts, except very light showers in Cuttack. In April and May the rainfall was below the normal everywhere. In June and July the rainfall was above the normal everywhere; it was very heavy in all the jute-growing districts, except Cuttack and Balasore in June and in Cuttack in July. The rainfall in August was below the normal in Purnea and Cuttack and above the normal in the remaining districts. The season was on the whole unfavourable for the crop. The growth of the crop on low lands in Purnea was retarded on account of heavy rain in June.

Outturn.—In the important districts of Purnea and Cuttack the outturn of the crop has been reported as 70 and 79 per cent., respectively. Champaran reports a crop of 98 per cent., Balasore, Muzaffarpur, Bhagalpur and the Santal Parganas report 84, 80, 66 and 60 per cent., respectively.

On the basis of the area and percentage outturn reported by the District Officers and taking three bales as the normal outturn per acre, the total gross outturn of the crop for the province this year comes to 313,423 bales or, in round numbers, 313,400 bales against 225,400 bales for last year.

The average import of raw jute into this province from Nepal during the last three years was equivalent to 77,621 bales. This figure added to the figure for the province arrived at gives a total for Bihar and Orissa of 391,044 bales or, in round numbers, 391,000 bales.

In view of the probably excessive estimate of area in Purnea, 3½ lakhs of bales is probably nearer the mark.

C. DOBBS,

Director of Agriculture, Bihar and Orissa.

CAMP RANCHI,

The 11th September 1922.

APPENDIX I.

Final Forecast of the Jute Crop of Bihar and Orissa, 1922.

DIVISION	District	Total area of the district	Estimated total area under cultivation	Estimated normal area under jute this year (1922)	ESTIMATED AREA UNDER JUTE.		ESTIMATED OUTTURN AS A PERCENTAGE OF A NORMAL YIELD PER UNIT OF AREA.		ESTIMATED TOTAL YIELD.		Date by which harvesting generally commenced, and whether that date was early, normal or late.	REMARKS BY DISTRICT OFFICERS.
					Last year (1921).	This year (1922).	Last year (1921).	This year (1922).	Last year (1921).	This year (1922).		
1		2	3	4	5	6	7	8	9	10	11	12
Bihar	Chau.			Acres.	Acres.	Acres.	Acres.					
Bihar	Muzaffarpur	1,942,324	1,637,000	1,600	1,600	1,600	1,600	100	98	3,900	3,234	Second week of September and August and September. Date normal.
Bihar	Bhagalpur	2,681,020	1,654,100	1,397	1,397	1,378	1,173	96	94	2,167	2,323	August and September.
Bihar	Patna	2,198,153	1,694,460	191,400	191,400	94,000	123,000	45	79	167,708	266,300	Latter part of July.
Bihar	Samat Parganas	2,486,400	1,717,600	3,006	3,006	500	400	61	60	945	730	Beginning of September.
Orissa	Ontake	2,210,207	1,322,500	18,500	18,500	15,000	16,300	64	76	40,598	28,394	Last week of August, which is late.
Orissa	B. hoore	1,225,621	922,900	2,400	2,400	1,700	2,600	53	94	4,743	6,552	Not yet begun
Total		17,222,666	10,809,800	290,557 or in round numbers 290,600	290,557 or in round numbers 290,600	105,148 or in round numbers 106,400	146,024 or in round numbers 146,100	69.3	71.5	225,417 or in round numbers 225,400	313,423 or in round numbers 313,400	The outturn of this year is less than that of last year owing to late sowing and consequent stunted growth of the plants.

APPENDIX II.

Abstract Statement of estimated acreage and outturn of the jute crop, 1922.

PROVINCE.	ACREAGE.								OUTTURN IN BALES OF 400 lbs.							
	Of current year's crop.	Of previous year's crop.	Average of five preceding years (viz., 1916 to 1920).	Average of ten preceding years (viz., 1911 to 1920).	PERCENTAGE BY WHICH COLUMN 2 EXCEEDS (+) OR FALLS SHORT OF (-) AREA IN—			Estimated yield of current year.	YIELD OF PREVIOUS YEAR.		Average of five preceding years (viz., 1916 to 1920).	Average of ten preceding years (viz., 1911 to 1920).	PERCENTAGE BY WHICH COLUMN 9 EXCEEDS (+) OR FALLS SHORT OF (-) OUTTURN IN—			
					Column 2.	Column 4.	Column 5.		Crop forecast.	Trade stable est.			Column 10 (a).	Column 10 (b).	Column 11.	Column 12.
1	2	3	4	5	6	7	8	9	10(a)	10(b)	11	12	13	14	15	16
Bihar and Orissa ...	146,100	108,400	195,800	237,300	+34.78	-25.38	-28.46	312,400	225,400	...	430,800	390,800	+39.04	...	-24.68	-46.04

APPENDIX III.

NAME OF DISTRICT.	RAINFALL IN JULY.				RAINFALL IN AUGUST.				NORMAL RAINFALL.	
	1919.	1920.	1921.	1922.	1919.	1920.	1921.	1922.*	July.	August.
	2	3	4	5	6	7	8	9	10	11
	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.
Champaran ...	12.88	14.21	12.56	16.45	7.28	10.97	16.94	16.22	14.03	14.99
Muzaffarpur ...	12.21	10.19	9.04	16.24	8.90	8.30	16.29	16.67	11.18	12.34
Bhagalpur ...	12.67	9.49	16.26	17.08	6.80	9.71	16.62	17.39	12.10	11.60
Purnea ...	16.20	8.73	26.40	20.92	7.89	14.44	14.64	10.67	16.77	14.95
Santal Parganas ...	16.69	14.39	11.28	16.14	13.67	9.73	17.39	12.22	12.64	11.95
Outtock ...	11.72	22.79	11.79	21.18	16.80	11.19	7.43	6.98	12.19	12.65
Balassore ...	7.56	19.00	12.67	16.81	16.89	11.48	10.82	12.81	11.89	11.23

* Figures relate to headquarters stations only.

DEPARTMENT OF LAND RECORDS AND AGRICULTURE, ASSAM.

Final Forecast of the Jute Crop of Assam, 1922.

NOTE. —On the average of the five years ending 1920-21, the area under jute in Assam represents 4.3 per cent. of the total area under jute in British India.

1. **Season.**—Since the issue of the preliminary forecast the weather has continued to be generally favourable, but the unusual drought in the spring which affected the early growth of the crop has caused the outturn to fall below normal.

2. **Area.**—The area under jute as reported by the Deputy Commissioners is 90,800 acres against the final figure of 80,800 acres (revised) in last year and 91,400 acres shown in the preliminary forecast of this year. The increase from last year is generally due to a better market. The areas reported in the preliminary forecast have been revised in five districts, two showing a decrease and three an increase.

3. **Outturn.**—The outturn is estimated to be 84 per cent. of the normal per acre against 56 (revised) of last year. On the basis of the normal yield of 3.5 bales of 400 lbs. per acre the total yield of jute fibre in Assam is calculated to be 268,000 bales against the revised figure of 154,400 bales of the previous year, or an increase of 74 per cent.

J. HEZLETT,

Director of Land Records and Agriculture, Assam.

SHILLONG,

The 11th September 1922.

APPENDIX I.

Final Forecast of the Jute Crop of Assam, 1922.

DISTRICT.	Estimated normal area under jute.	ESTIMATED AREA UNDER JUTE.		ESTIMATED OUT-TURN AS A PERCENTAGE OF THE NORMAL YIELD PER UNIT OF AREA.		ESTIMATED TOTAL YIELD IN BALES OF 400 LBS.		Date by which the harvesting was commenced this year and whether that date was early, normal or late.	REMARKS BY DEPUTY COMMISSIONERS.
		Last year's actual.*	This year.	Last year.*	This year.	Last year.*	This year.		
1	2	3	4	5	6	7	8	9	10
	Acres.	Acres.	Acres.						
Cachar ...	300	200	300	60	86	400	500	August. Normal ...	The increase in area is due to reasonable rains at the time of sowing. There was excessive rain afterwards which retarded growth of the crop and hence the low outturn.
Sylhet ...	17,900	5,800	10,300	60	180	11,500	36,000	Middle of July. Early.	The rise in price of jute about the end of 1921 induced the cultivators to grow more jute during the current year. The weather was normal from June to August and has been favourable to the crop.
Goalpara ...	50,000	24,800	30,800	25	60	20,200	34,900	Middle of July. Normal.	The improvement in price of jute and the favourable weather in the latter part of the sowing time caused the increase in area. It continued to be favourable till August, but drought interfered with the growth of young plants to some extent.
Kamrup ...	12,700	10,600	12,300	60	80	17,600	24,300	2nd week of August. Normal.	There was extension of cultivation. The outturn is estimated to be below normal owing to want of rain at sowing time and to damage caused by insects.
Darrang ...	9,300	11,600	10,000	65	80	23,800	27,900	Middle of July. Early	The weather has been unfavourable in the Mangaldai subdivision and this combined with want of rain at sowing time is responsible for the decrease in area and the fall of outturn below normal.
Nowrode ...	14,700	23,600	24,600	95	90	73,600	77,800	14th July. Early ...	The increase in area is due partly to revision of figures and partly to expectation of better price. The weather from June to August and its effect on the growth of the crops were good but drought at sowing time and insects pests caused the outturn to fall below normal.
Sibsagar ...	300	300	300	75	75	700	700	3rd week of August. Normal.	The weather was dry at sowing time but very rainy during July and August. Floods caused some damage to the crop.
Lakhimpur ...	300	100	100	75	93	300	300	16th September. Normal.	The weather was favourable at the beginning but not quite so afterwards. Some damage was done by floods in places in the North Lakhimpur subdivision.
Garo Hills ...	4,600	4,300	2,700	50	65	6,900	6,100	19th July. Normal ...	The decrease in area is due to bad weather at sowing time. It however improved during June to August.
Total ...	110,000	60,900	90,800	66	84	154,400	268,700		

* On the basis of the actual

APPENDIX II.

Abstract Statement of estimated acreage and outturn of the jute crop, 1922.

PROVINCE.	ACREAGE.							OUTTURN IN BALES OF 400 LBS.								
	Of current year's crop.	Of previous year's crop.*	Average of five preceding years (viz., 1916 to 1920).	Average of ten preceding years (viz., 1911 to 1920).	PERCENTAGE BY WHICH COLUMN 2 EXCEEDS (+) OR FALLS SHORT OF (-) AREA IN—			Estimated field of current year.	YIELD OF PREVIOUS YEAR ACCORDING TO—		Average of five preceding years (viz., 1916 to 1920).	Average of ten preceding years (viz., 1911 to 1920).	PERCENTAGE BY WHICH COLUMN 9 EXCEEDS (+) OR FALLS SHORT OF (-) OUTTURN IN—			
					Column 2.	Column 4.	Column 5.		Crop statistics.	Trade statistics.			Column 10.	Column 11.	Column 12.	Column 13.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Assam:	90,800	80,800	108,100	98,900	+ 13	- 13	- 8	268,000	154,400	136,100	267,800	354,800	+ 74	+ 97	...	+ 5

* On the basis of actual final figures.

APPENDIX III.

Statement of rainfall in July and August 1919—1922.

DISTRICT.	RAINFALL IN JULY.				RAINFALL IN AUGUST.			
	1919.	1920.	1921.	1922.	1919.	1920.	1921.	1922.
1	2	3	4	5	6	7	8	9
	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.
Coochur	13.77	14.40	14.93	11.63	12.08	23.44	17.88	19.51
Sylhet	18.96	15.16	23.27	18.15	12.78	26.90	18.09	23.11
Goalpara	19.45	10.43	33.12	19.61	10.46	27.79	16.77	18.84
Kamrup	12.24	13.73	14.39	14.24	9.21	15.18	11.74	12.67
Darrang	12.97	9.40	19.19	10.88	9.03	12.27	13.73	13.06
Nowgong	15.42	11.21	13.27	13.02	9.43	12.59	14.42	10.96
Sibsagar	18.27	12.27	11.87	12.13	11.66	12.21	12.16	15.21
Lakhimpur	24.11	14.81	16.56	19.21	10.53	16.04	20.59	21.68
Garo Hills	23.04		21.44	21.06	9.29	24.24	12.77	16.96

IMPROVEMENT OF THE EVENING CLASSES IN THE MINING CENTRES OF
BENGAL.

GOVERNMENT OF BENGAL.

AGRICULTURE AND INDUSTRIES DEPARTMENT.

DARJEELING, THE 18TH SEPTEMBER 1922.

RESOLUTION—No. 169T.—1ND.

Minister in charge : The Hon'ble Nawab Salyid Nawab Ali Chaudhuri, Khan Bahadur, C.I.E.

In 1913 a Joint Committee for the two provinces of Bengal and Bihar and Orissa was appointed under the presidency of Mr. (now Sir Duncan) Macpherson to advise on the question of Mining Education in the coal-fields. The Committee submitted a detailed scheme for the establishment of a School of Mines at Dhanbad. They also recommended the improvement and development of the existing evening classes which are conducted by part-time lecturers in mining centres and their continuance independently even after the establishment of the School of Mines. In place of the existing part-time lecturers they recommended that a permanent staff of properly trained and qualified teachers should be appointed and drew up two alternative schemes, one for a course extending over five years which would produce first-class mine managers, and the other for a course limited to three years which would turn out second-class mine managers.

2. The Government of India have taken up the question of the establishment of a School of Mines and Geology at Dhanbad. A joint scheme for the improvement of the evening classes in the mining centres of the two provinces of Bengal and Bihar and Orissa was prepared, but the scheme fell through, and the Government of Bengal decided to take up separately for the two mining centres in this province the less costly scheme for a three years' course, suggested by the Macpherson Committee, to meet the requirements of those desiring to appear at the examination for the second-class colliery managers' certificates. The Mining Education Advisory Board was accordingly asked to submit, for the approval of Government, a complete scheme with details as to the nature and scope of the classes, and representatives of the mining industry were consulted as to their willingness to co-operate in the scheme. The Indian Mining Association and the Indian Mining Federation approved of the scheme and intimated their willingness to contribute Rs. 4,000 and Rs. 1,500, respectively, or Rs. 5,500 in all, towards the annual cost.

3. The scheme prepared by the Mining Education Advisory Board involved the construction of two lecture-halls at Raniganj and Sitarampore, quarters for the Mining Instructor at Asansol, two quarters for the Assistants, one at Raniganj and the other at Sitarampore, and furniture for the two lecture-halls, at a total estimated cost of about Rs. 70,000. Some of the buildings are already under construction, and it is proposed to start the classes there from the current month.

4. The staff for the evening classes consists of a Mining Instructor on a pay of Rs. 1,000—50—1,200 and of two Assistant Lecturers, on a pay of Rs. 150—10—250 each, with free quarters, or house-rent in lieu thereof, as well as one peon and two chankidars at Rs. 13—4—17 each per mensem. The total cost, including travelling and conveyance allowances, contingencies and repair charges of the buildings, is estimated at about Rs. 27,000 per annum. Steps will be taken at once for the recruitment of the staff.

5. The session will extend over about nine months, each class being held twice a week at each centre.

6. Students will be admitted at any stage of the three years' course at the discretion of the Lecturer, but no certificate will be granted to any candidate unless he has completed the second and third year courses successfully.

The curriculum will be as follows :—

I.—First-year course.

(1) Mathematics—

Arithmetic and Algebra.
Mensuration and Use of Squared Paper.
Trigonometry.

(2) Elementary Science—

Physics and Chemistry.

II.—Second-year course.

(1) Elementary Mechanics.

(2) Mechanical Drawing.

(3) Elementary Mining and Surveying.

III.—Third-year course.

(1) Mining and Geology.

(2) Mechanical and Electrical Engineering.

By order of the Government of Bengal,
(Ministry of Agriculture and Industries),

J. A. L. SWAN,

Secretary to the Government of Bengal.

Vital Statistics of Towns with a population of 50,000 and over of Bengal Presidency for the week ending Saturday, the 18th February 1922.

District.	No.	Towns.	POPULATION UNDER REGISTRATION ACCORDING TO CENSUS OF 1921.			BIRTHS REGISTERED.		DEATHS REGISTERED.																Total of causes pending week of the previous year.				
			Male.	Female.	Total.	Number registered (excluding still-births).	Still-born number registered.	Cholera.	Small-pox.	Plague.	Malaria.	Enteric fever.	Measles.	Relapsing fever.	Erysipelas.	Dysentery.	Diarrhoea.	Influenza.	Pneumonia.	Typhoid.	Other respiratory diseases.	Injuries.	Deaths from child-birth.	Other causes.	Total of all causes.			
																									Male.	Female.	Total.	Male.	Female.	Total.
Calcutta	1	Calcutta	617,550	290,241	907,791	379	20	19	17	...	27	4	...	3	28	4	18	60	26	10	...	183	286	474	312	790		
Bardwan	2	Assam Mining Settlements.	176,816	152,539	329,355	126	...	2	...	...	...	...	...	...	19	6	...	...	...	21	1	...	40	81	121	65
Howrah	3	Howrah	126,472	64,959	191,431	93	2	1	4	...	12	3	1	...	19	13	5	15	3	22	6	...	52	91	123	60	212	
Dacca	4	Dacca	67,532	52,117	119,649	77	1	1	...	...	4	...	1	6	20	4	1	5	1	3	...	28	47	77	26	63
Manikiala	5	Manikiala	40,546	26,376	66,922	13	2	...	1	6	1	2	4	10	15	29	43	21	47	
Bhatpara	6	Bhatpara	48,723	19,826	68,549	11	...	1	1	1	1	3	2	5	7	22
Chandpur-Chitpur.	7	Chandpur-Chitpur.	36,289	20,184	56,473	21	1	1	3	3	...	2	1	6	8	12	20	11	31	
Patnagarh	8	Patnagarh	26,123	12,918	39,041	8	6	2	1	4	9	13	14	29

CHAS. A. BENTLEY, Director of Public Health, Bengal.

CALCUTTA, the 30th August 1922.

Vital Statistics of Towns with a population of 50,000 and over of Bengal Presidency for the week ending Saturday, the 25th February 1922.

District.	No.	Towns.	POPULATION UNDER REGISTRATION ACCORDING TO CENSUS OF 1921.			BIRTHS REGISTERED.		DEATHS REGISTERED.														Total of area corresponding week of the previous year.										
			Male.	Female.	Total.	Number registered (excluding still-born).	Still-born number registered.	Cholera.	Small-pox.	Plague.	Malaria.	Enteric fever.	Measles.	Relapsing fever.	Kala-azar.	Other fevers.	Dysentery.	Diarrhoea.	Indigestion.	Pneumonia.	Phthisis.	(Other respiratory diseases).	Injuries.	Deaths from child-birth.	Other causes.	Total of all causes.		Male.	Female.	Total.		
Calcutta	1	Calcutta	617,560	370,261	987,821	206	14	17	10	...	...	13	7	1	...	2	29	20	11	19	50	37	75	19	3	165	294	182	507	296	210	706
Bardhaman	2	Amraol Mining Settlement.	175,814	103,539	279,353	128	...	2	...	...	...	...	...	...	...	...	32	7	...	...	...	...	22	1	...	64	70	68	128	187	167	234
Howrah	3	Howrah	125,472	64,829	190,301	87	6	6	16	...	...	7	3	...	...	...	26	10	7	...	10	4	10	...	...	25	80	43	123	96	64	160
Dacca	4	Dacca	67,323	52,117	119,440	66	2	2	...	...	...	3	...	...	...	7	17	2	2	...	...	1	4	...	...	21	22	26	59	22	24	54
Manikiala	5	Manikiala	40,606	26,276	67,272	12	...	...	...	...	...	3	...	...	...	...	...	2	...	...	5	2	8	...	5	16	22	16	26	46	31	77
Bhatpara	6	Bhatpara	44,722	19,866	64,588	16	...	...	...	...	...	1	...	...	...	...	2	...	2	...	...	...	...	...	...	4	5	9	10	17	11	28
24-Parganas	7	Goodpur-Chitpur.	26,289	20,185	46,474	19	...	2	...	...	...	...	...	...	...	...	1	2	...	...	1	1	2	3	...	10	11	11	22	26	10	26
Tilagarh	8	Tilagarh	26,333	16,916	43,249	10	...	...	...	...	...	...	...	...	...	...	10	...	...	...	...	...	4	...	2	...	9	7	16	21	17	23

CHAS. A. BENTLEY, Director of Public Health, Bengal.

CALCUTTA, the 30th August 1922.

DISTRICT REPORTS ON WEATHER AND CROPS

For the week ending on the 20th September 1922.

Summary.—The rainfall during the week was generally light to moderate. Harvesting of autumn paddy is nearly finished. Cutting and steeping of jute are still continuing. Transplantation of winter paddy is almost completed and weeding is well advanced. Condition and prospects of standing crops are good. The average price of common rice for the province has fallen by about 2·18 per cent. as compared with that of the previous week.

Serial No.	District and subdivision.	Rainfall.	PRICE OF COMMON RICE, IN SEER, PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches.			
1	24-PARGANAS ...	5·02	5½	5½	Effects of weather on standing crops are good. Retransplantation of <i>aman</i> paddy is finished. <i>Aman</i> paddy is thriving well at Barasat. Harvesting of <i>aus</i> paddy and jute continues. Fodder and water are sufficient.
	Diamond Harbour.	1·16	6½	5½	
	Barrackpore ...	2·64	5½	5½	
	Barasat ...	1·94	5	5	
	Basirhat ...	5·55	6½	6½	
2	NADIA ...	0·92	6½	6½	Harvesting of <i>aus</i> paddy and jute continues. Steeping of jute has commenced at places. Prospects of <i>aman</i> paddy are favourable. Fodder and water are sufficient. Cattle-disease is reported from the Ranaghat, Chuadanga and Meherpur subdivision.
	Kushtia ...	0·59	6½	6	
	Meherpur ...	0·85	6½	6½	
	Chuadanga ...	1·13	6½	6½	
	Ranaghat ...	1·13	5½	5½	
3	MURSHIDABAD	0·25	6½	7	Weather cloudy. Prospects of standing crops are fair. Rain is wanted for <i>aman</i> paddy. Harvesting of jute and other <i>bhadosi</i> crops continues. No large import or export. Fodder is sufficient. Cattle-disease is reported from thana Khargram in Kandi subdivision.
	Lalbagh ...	0·33	6½	6½	
	Jangipur ...	2·64	7½	7½	
	Kandi ...	0·34	8	8½	
4	JESSORE	1·70	6	6	Prospects of standing crops are favourable. Harvesting of <i>aus</i> paddy and jute continues. Cultivation of lands for <i>rabi</i> crops continues and their sowings on high lands have commenced in places. Export of paddy continues to be reported from Bongaon. Fodder and water are sufficient.
	Jhenidah ...	0·42	7½	6½	
	Magura ...	1·08	6½	6	
	Narail ...	0·31	6½	6½	
	Bongaon ...	1·35	6	6	
5	KHULNA ...	0·68	6	6	Weather seasonable. Harvesting of <i>aus</i> paddy and jute continues, and transplantation of <i>aman</i> paddy is nearly finished. The recent flood has damaged <i>aus</i> paddy to some extent in thana Mollahat. Fodder and water are sufficient.
	Satkhira ...	1·46	6	6	
	Bagerhat ...	0·50	6½	6½	

Serial No.	District and subdivision.	Rainfall.	PRICE OF COMMON RICE, IN SEERS, PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
		Inches.			
6	BURDWAN ...	0.43	6	6	Weather cloudy. Weeding of <i>aman</i> paddy is nearly over. Harvesting of <i>aus</i> paddy and jute continues. Rinderpest is reported from the thanas Ketugram, Mangalkot and Jamalpur.
	Asansol ...	0.21	6	6	
	Katwa ...	0.82	7½	7	
	Kalna ...	0.61	6½	6½	
7	BIRBHUM ...	0.72	7	6½	Condition of standing crops is good. Fodder and water are sufficient.
	Rampurhat ...	(n)	(n)	7	
8	BANKURA ..	1.16	7½	8	Agricultural prospects are favourable. Export of rice and paddy continues.
	Visnupur ...	2.48	7	(n)	
9	MIDNAPORE ...	2.51	6½	7½	Condition of winter paddy is favourable. Harvesting of <i>aus</i> paddy and sowing of early cotton continue. Fodder and water are sufficient. Cattle disease is reported from Contai thana.
	Jhargram ...	(n)	(n)	6	
	Ghatal ...	1.38	7½	7½	
	Tamluk ...	0.88	5½	5½	
	Contai ...	3.46	7	7	
10	HOOGLY ...	1.90	5½	5½	Effects of weather on crops are favourable. Fodder is sufficient. Prices of rice are falling in Serampore and Arambagh. Cattle disease is reported from Gandua thana.
	Serampore ...	1.80	5½	5½	
	Arambagh ...	0.68	7½	6½	
11	HOWRAH ...	3.58	5½	5½	Paddy is being successfully re-transplanted in higher portions of flooded area. Cutting and steeping of jute continue.
	Uluberia ...	2.35	5½	5½	
12	RAJSHAHI (RAMPUR-BOALIA).	0.41	7	6½	Prospects of <i>aman</i> paddy are good. Harvesting of jute and <i>aus</i> paddy continues. Fodder and water are sufficient. Cattle-disease is reported from the Sadar and Natore subdivisions.
	Naogaon ...	1.09	6	6	
	Nator ...	0.23	6½	6½	
13	DINAJPUR ...	0.90	8½	7½	Weather seasonable. Prospects of winter paddy are good and its transplantation is finished. Harvesting of jute continues and that of <i>bhadoi</i> paddy is nearly finished. Fodder and water are sufficient. Cattle-disease is reported from Birganj, Khansama and Kaharole thanas in Thakurgaon subdivision.
	Thakurgaon ...	Nil	8½	8½	
	Balurghat ...	Nil	9½	8	
14	JALPAIGURI ...	0.15	7	7	Harvesting and steeping of jute continue. Prospects of jute and <i>bhadoi</i> paddy are normal and those of winter paddy are fair.
	Alipur ...	2.01	6	6	

(n) Not reported.

Serial No.	District and subdivision.	Rainfall.	PRICE OF COMMON RICE, IN ANNAS, PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches.			
15	DARJEELING ...	0.63	5½	5½	Maize and potatoes are being harvested. <i>Manua</i> is progressing well and paddy seedlings are being transplanted. Fodder and water are sufficient. Cattle-disease exists in places.
	Kurseong ...	2.49	6	6	
	Siliguri ...	0.10	6	6	
	Kalimpong ...	0.29	5½	5½	
16	RANGPUR ...	0.40	6½	6½	Transplantation of winter rice and harvesting of jute are nearly finished. More rain is urgently needed for standing crops. Foot and mouth disease of cattle is reported from Gaibandha subdivision. Fodder and water are sufficient.
	Nilphamari ...	Nil	6½	6½	
	Kurigram ...	Nil	6	6½	
	Gaibandha ...	0.05	7½	7½	
17	BOGRA ...	1.32	7½	7½	Harvesting of <i>aus</i> paddy and jute and steeping of jute and the transplantation of winter paddy seedlings continue.
18	PABNA ...	0.95	6½	6	Weather partially rainy and cloudy. Prospects of standing crops are good. Harvesting of jute still continues. Agricultural stock is sufficient. Rice market is fluctuating. Pasturage, fodder and water are sufficient.
	Sirajganj ...	1.09	6½	6½	
19	MALDA ...	2.43	6½	6½	Harvesting of jute and <i>bhadoi</i> paddy is almost completed. Prospects of transplanted winter paddy are good.
20	COOCH BEHAR	0.60	7½	7½	Weather seasonable. Transplantation of <i>hai-mantic</i> seedlings and cutting of <i>bitri</i> paddy are finished. Cutting, steeping and washing of jute are continuing. Prospects and condition of standing crops are favourable. Cattle-disease is reported from Tufanganj subdivision. Fodder is sufficient.
21	DACCA ...	0.95	7	7	Weather seasonable. Harvesting of sugarcane is going on. Prospects of <i>aman</i> paddy are reported to be satisfactory. Fodder and water are sufficient.
	Manikganj ...	1.90	7½	7½	
	Narayanganj ...	3.82	7½	(n)	
	Munshiganj (a)	(n)	6½	6½	
22	MYMENSINGH ...	0.25	6½	6½	Weather seasonable. Prospects of standing crops are good. Harvesting of jute is going on. Fodder and water are sufficient.
	Jamalpur ...	0.23	6½	6½	
	Tangail ...	(n)	6½	6½	
	Netrokona ...	1.97	6½	6½	
	Kishorganj ...	1.56	5½	5½	

(a) Munshiganj being very near to Dacca and Narayanganj, its rainfall statistics are not quoted. To give information regarding the northern part of the district, rainfall figures for Kapasia thana are reported here.

(n) Not reported.

Serial No.	District and subdivision.	Rainfall.	PRICE OF COMMON RICE, IN SEERS, PER RUPEE.		Character of the weather, condition of crops, etc.
			This week.	Previous week.	
1	2	3	4	5	6
		Inches.			
23	FARIDPUR ...	1.94	{ 6½ 6½	{ 6½ 6½	Prospects of standing crops are unfavourable. Fodder is insufficient.
	Goalundo (Rajbari).	1.04	6	6	
	Madaripur ...	Nil	8	6½	
	Gopalganj (a) ...	(n)	(n)	6½	
24	BAKARGANJ (BARISAL).	1.05	6½	6½	Weather seasonable. Prospects of standing crops are fair. Fodder and water are sufficient.
	Pirojpur ...	0.37	6	6	
	Patuakhali ...	0.85	6½	6½	
	Dakshin Shabazpur (Bhola).	0.38	7½	(n)	
25	CHITTAGONG ...	1.05	{ 5½ 6½	{ 5½ 6½	Transplantation of <i>aman</i> paddy and harvesting of <i>aus</i> paddy are in progress. Prospects of standing crops are fair. Fodder is sufficient. <i>Panga</i> salt is selling at 13 seers per rupee at Sadar subdivision and 10½ seers at Cox's Bazar. Cattle-disease is reported from Sitakunda and Chakaria.
	Cox's Bazar ...	0.69	6	6	
26	TIPPERA (COMILLA).	0.52	5½	5½	Weather hot and cloudy. Harvesting of <i>aus</i> paddy and jute is nearly finished and transplantation of winter paddy is nearing completion. Prospects of standing crops are fair.
	Brahmanbaria	0.71	5½	5½	
	Chandpur ...	2.24	6½	6½	
27	NOAKHALI ...	4.20	6	5½	Weather stormy. Prospects of standing crops are good. Fodder and water are sufficient.
	Feni ...	0.58	6½	6½	
28	CHITTAGONG HILL TRACTS.	2.68	6	6	Prospects of crops are favourable. Fodder and water are sufficient. Condition of cotton is not promising.
29	TRIPURA STATE	1.41	5½	5½	Weather seasonable. Transplantation of winter rice and harvesting of jute are going on. Cotton is flowering. condition of cattle is good. Prospects of standing crops are fair. Jute is selling at Rs. 6 and cleaned cotton at Rs. 25 to Rs. 50 per maund.

* Burma rice.

(a) The rainfall at Haridaspur, which is very near to Gopalganj, is shown here.

(n) Not reported.

J. GHOSH, for Director of Agriculture, Bengal.

DACCA, the 23rd September 1922.

Statement showing the daily gauge-readings of certain rivers at the stations named below for week ending Thursday, the 21st September 1922.

Name of river and place where readings are taken.	Date.	Hour.	Reading on gauge.	Value of zero referred to P. W. D. datum.	Height above P. W. D. datum.	COMPARED WITH PREVIOUS DAY'S HEIGHT.		HEIGHT ABOVE P. W. D. DATUM ON SAME DATE IN—		Remarks.
						Rise.	Fall.	1921.	1920.	
Ganges ...	Monghyr ...	15th Sept. 1922	126.20'	0.00'	126.20'	...	0.60'	124.50'	118.60'	
	Rajmahal ...	15th "	28.05'	56.319'	84.369'	...	0.20'	81.219'	78.719'	
	Goalundo ...	15th "	23.40'	4.896'	28.296'	...	0.10'	28.096'	27.696'	
Brahmaputra	Gauhati ...	15th "	19.80'	135.18'	154.98'	...	0.40'	160.28'	155.38'	
	Sirajganj ...	15th "	37.70'	1.509'	39.209'	...	0.20'	41.809'	42.909'	
	Dibrugarh ...	15th "	16.10'	314.18'	330.28'	...	0.20'	334.18'	330.63'	
Meghna	Bhairab Bazar	15th "	19.00'	1.61'	20.61'	Steady.		20.11'	21.11'	
	Chandpur ...	15th "	12.33'	1.61'	13.94'	...	0.08'	12.86'	15.36'	
	Fenchuganj ...	15th "	30.90'	1.509'	32.409'	...	0.05'	28.709'	30.059'	
Dhaleswari	Sabhar ...	15th "	28.90'	- 8.62'	20.28'	...	0.30'	19.18'	20.18'	
Bhagirathi	Swarupganj ...	15th "	27.17'	1.509'	28.6 9'	...	0.05'	28.679'	26.949'	
Dainodar	Edilpur ...	15th "	5.58'	92.58'	98.16'	...	0.67'	102.41'	101.53'	
Lakhya	Narayanganj	15th "	22.37'	- 5.59'	16.78'	...	0.06'	16.97'	18.49'	
Madaripur Bil Route (Lower Kumar).	Takerhat ...	15th "	14.60'	- 0.599'	14.001'	...	0.10'	13.101'	13.001'	

Statement showing the daily gauge-readings of certain rivers at the stations named below for week ending Thursday, the 21st September 1922.

Name of river and place where readings are taken.	Date.	Hour.	Reading on gauge.	Value of zero referred to P. W. D. datum.	Height above P. W. D. datum.	COMPARED WITH PREVIOUS DAYS HEIGHT.		HEIGHT ABOVE P. W. D. DATUM ON SAME DATE IS—		Remarks.
						Rise.	Fall.	1921.	1920.	
Ganges	Monghyr ...	17th Sept. 1922	6 A.M. ...	124.30'	0.00'	124.30'	...	125.80'	119.10'	
	Rajmahal ...	17th "	6 " ...	27.00'	56.319'	83.319'	...	81.969'	78.569'	
	Goalundo ...	17th "	8 hours ...	23.20'	4.896'	28.096'	Steady	28.296'	27.796'	
Brahmaputra	Gauhati ...	17th "	8 A.M. ...	18.80'	135.18'	153.98'	...	161.18'	157.98'	
	Sirajganj ...	17th "	12 hours ...	37.30'	1.509'	38.809'	...	41.809'	43.309'	
	Dibrugarh ...	17th "	8 A.M. ...	15.50'	314.18'	329.68'	...	331.88'	333.73'	
Meghna	Bhairab Bazar ...	17th "	6 hours ...	18.83'	1.61'	20.44'	...	20.11'	21.15'	
	Chandpur ...	17th "	14-20 "	12.17'	1.61'	13.78'	0.17'	13.61'	14.36'	
	Fenchuganj ...	17th "	7 " "	30.95'	1.509'	32.459'	0.10'	28.509'	30.159'	
Dhaleswari	Sabhar ...	17th "	7 A.M. ...	28.50'	-8.62'	19.88'	...	19.08'	20.58'	
	Swarupganj ...	17th "	6 " "	26.95'	1.509'	28.459'	...	28.809'	26.859'	
	Edilpur ...	17th "	6 " "	5.00'	92.58'	97.58'	0.08'	102.50'	102.25'	
Lakhya	Narayanganj ...	17th "	6-30 "	23.21'	-5.59'	17.62'	...	17.18'	18.28'	
	Madaripur Pil Route (Lower Kumar).	17th "	6 " "	14.45'	-0.599'	13.851'	...	13.051'	13.101'	

Statement showing the daily gauge-readings of certain rivers at the stations named below for week ending Thursday, the 21st September 1922.

Name of river and place where readings are taken.	Date.	Hour.	Reading on gauge.	Value of zero referred to P. W. D. datum.	Height above P. W. D. datum.	COMPARED WITH PREVIOUS DAY'S HEIGHT.		HEIGHT ABOVE P. W. D. DATUM ON SAME DATE IN—		Remarks.
						Rise.	Fall.	1921.	1920.	
Ganges ...	18th Sept. 1922	6 A.M.	123.50'	0.00'	123.50'	...	0.80'	126.00'	119.00'	
	18th "	6 "	26.00'	56.319'	82.319'	...	1.00'	82.269'	78.519'	
	18th "	8 hours	22.90'	4.896'	27.796'	...	0.30'	28.396'	27.796'	
Brahmaputra	18th "	8 A.M.	18.10'	135.18'	153.28'	...	0.70'	161.58'	159.18'	
	18th "	12 hours	37.00'	1.509'	38.509'	...	0.30'	41.909'	43.209'	
	18th "	8 A.M.	15.30'	314.18'	329.48'	...	0.20'	330.68'	334.98'	
Meghna ...	18th "	6 hours	18.75'	1.61'	20.36'	...	0.08'	20.11'	21.15'	
	18th "	15-10 "	12.33'	1.61'	13.94'	0.17'	...	13.86'	14.11'	
	18th "	7 "	30.95'	1.509'	32.459'	Steady		28.459'	30.609'	
Dhaleswari	18th "	7 A.M.	28.20'	-8.62'	19.58'	...	0.30'	19.18'	20.58'	
Bhagirathi	18th "	6 "	26.86'	1.509'	28.369'	...	0.09'	28.739'	26.829'	
Damodar	18th "	6 "	4.58'	92.58'	97.16'	...	0.42'	100.08'	100.75'	
Lakhya	18th "	6-30.	23.14'	-5.59'	17.55'	...	0.06'	17.28'	18.03'	
Madaripur Bill Route (Lower Kumar).	18th "	6 "	14.35'	-0.599'	13.751'	...	0.10'	13.101'	13.051'	

Statement showing the daily gauge-readings of certain rivers at the stations named below for week ending Thursday, the 21st September 1922.

Name of river and place where readings are taken.	Date.	Hour.	Reading on gauge.	Value of zero referred to P. W. D. datum.	Height above P. W. D. datum.	COMPARED WITH PREVIOUS DAY'S HEIGHT.		HEIGHT ABOVE P. W. D. DATUM ON SAME DATE IN—		Remarks.
						Rise.	Fall.	1921.	1922.	
Ganges ...	20th Sept. 1922	6 A.M. ...	121.70'	0.00'	121.70'	...	...	125.30'	117.50'	
	20th "	6 "	23.90'	56.319'	80.219'	...	...	82.419'	77.819'	
	20th "	8 hours ...	22.10'	4.896'	26.996'	...	...	28.596'	27.696'	
Brahmaputra ...	20th "	8 A.M. ...	16.80'	135.18'	151.98'	...	...	160.88'	161.68'	
	20th "	12 hours ...	36.30'	1.509'	37.809'	...	...	42.209'	43.009'	
	20th "	8 A.M. ...	15.20'	314.18'	329.38'	0.10'	...	329.78'	333.18'	
	20th "	6 hours...	18.58'	1.61'	20.19'	...	...	20.11'	21.28'	
Meghna ...	20th "	17 "	12.58'	1.61'	14.19'	0.17'	...	14.36'	13.19'	
	20th "	7 "	30.75'	1.509'	32.259'	...	...	28.759'	30.859'	
	20th "	7 A.M. ...	27.70'	-8.62'	19.08'	...	...	19.38'	20.68'	
Dhaleswari ...	20th "	6 "	26.47'	1.509'	27.979'	...	...	28.479'	26.312'	
Bhagirathi ...	20th "	6 "	4.17'	92.58'	96.75'	...	...	98.08'	101.08'	
Damodar ...	20th "	6-30 "	22.92'	-5.59'	17.33'	...	...	17.33'	17.66'	
Lakhya ...	20th "	6 "	14.10'	-0.539'	13.501'	...	...	13.101'	12.801'	
Madaripur Bil Route (Lower Kumar).	20th "	6 "								

Statement showing the daily gauge-readings of certain rivers at the stations named below for week ending Thursday, the 21st September 1922.

Name of river and place where readings are taken.	Date.	Hour.	Reading on gauge.	Value of zero referred to P. W. D. datum.	Height above P. W. D. datum.	COMPARED WITH PREVIOUS DAY'S HEIGHT.		HEIGHT ABOVE P. W. D. DATUM ON SAME DATE IS—		Remarks.
						Rise.	Fall.	1921.	1920.	
Ganges ...	21st Sept. 1922	6 A.M. ...	121.50'	0.00'	121.50'	...	0.20'	124.60'	117.00'	
	21st "	6 "	23.35'	56.319'	79.669'	...	0.55'	82.269'	77.419'	
	21st "	8 hours ...	21.50'	4.896'	26.396'	...	0.60'	28.796'	27.496'	
Brahmaputra	21st "	8 A.M. ...	16.20'	135.18'	151.38'	...	0.60'	168.28'	161.98'	
	21st "	12 hours ...	35.80'	1.509'	37.309'	...	0.50'	42.359'	42.909'	
	21st "	8 A.M. ...	15.05'	314.18'	329.23'	...	0.15'	329.68'	332.78'	
Meghna ...	21st "	6 hours	18.50'	1.61'	20.11'	...	0.08'	20.03'	21.23'	
	21st "	5-30 "	12.58'	1.61'	14.19'	Steady		14.36'	12.78'	
	21st "	7 hours ...	30.70'	1.509'	32.209'	...	0.05'	28.809'	30.859'	
Dhaleswari	21st "	7 A.M. ...	27.30'	- 8.62'	18.68'	...	0.40'	19.48'	20.58'	
Bhagirathi	21st "	6 "	26.10'	1.509'	27.609'	...	0.37'	28.369'	25.699'	
Damodar	21st "	6 "	4.00'	92.58'	96.58'	...	0.17'	97.83'	98.66'	
Laknya ...	21st "	6-30 "	22.42'	- 5.59'	17.33'	Steady		17.35'	17.53'	
Madaripur Bil Route (Lower Kumar).	21st "	6 "	13.90'	- 0.599'	13.301'	...	0.20'	13.101'	12.701'	

DEPARTMENT OF STATISTICS, INDIA.

CALCUTTA TRADE FLUCTUATIONS.

THE following tables are intended to show the trade by all routes, *i.e.*, by rail, river, canal, road and sea, of the Calcutta block* in certain selected articles during the four months, April to July, 1922, as compared with the corresponding period of 1921 and 1920. The statistics have been compiled from returns furnished by the Collector of Customs, Calcutta, Railway Audit Offices, Steamer Companies, the Commissioners for the Port of Calcutta, the Collectors of the 24-Parganas and Howrah, and the Assistant Engineer, Calcutta Canals.

General Summary.

Imports.—The imports of rice, including paddy†, into Calcutta* by rail, river, canal, road, and sea (coastwise) during the four months, April to July, 1922, amounted to 4,854,000 maunds as against 5,256,000 maunds in the corresponding period of the preceding year,—a decrease of 402,000 maunds or 8 per cent. There was also a decrease of 22 per cent in the imports of coal and coke (31,161,000 maunds as against 40,276,000 maunds a year ago). The value of the imports by rail, river, road, and sea (coastwise) of Indian cotton piece-goods showed an increase of 32 per cent, the total value amounting to Rs. 3,79 lakhs as against Rs. 2,88 lakhs in 1921. The quantity of indigo imported during the four months, April to July, 1922, increased from 150 maunds last year to 213 maunds. The imports of raw jute amounted to 935,000 bales as against 753,000 bales,—an increase of 182,000 bales or 24 per cent. The importation of gunny bags, on the other hand, showed a decrease of 5 million bags (84 million bags against 89 millions in the preceding year). The total imports of oilseeds (linseed and rape and mustard seed) increased by 1,533,000 maunds, or 62 per cent, from 2,476,000 maunds to 4,009,000 maunds, but those of sugar declined by 50,000 maunds, or 22 per cent, from 224,000 maunds to 174,000 maunds. The imports of tea increased from 528,000 maunds to 589,000 maunds or 11 per cent.

Exports.—The value of the exports of cotton piece-goods, foreign, from Calcutta* by all routes during the four months, April to July, 1922, increased by 10 per cent from Rs. 7,23 lakhs to Rs. 7,96 lakhs. The exports of gunny bags (including the exports by sea to foreign countries) decreased from 321 million to 306 million bags, and the shipments of gunny bags to other Indian ports decreased from 21 to 16 millions in number in the period under review. The quantity of kerosene oil despatched from Calcutta and Budge-Budge by internal routes and by sea (coastwise) showed a decrease of 97,000 maunds or 5 per cent, from 2,040,000 maunds to 1,943,000 maunds.

* The Calcutta block consists of the town of Calcutta with Howrah and Kidderpore Docks.

† One maund of paddy is equivalent to 25 seers of rice.

TABLE 4

Trade of Calcutta in certain selected Articles in the four months, April to July, 1922, compared with the corresponding months of 1921.

	IMPORTS		EXPORTS	
	BY RAIL, ROAD, RIVER, CANAL AND SEA (COASTWISE) (a)		BY SEA (FOREIGN AND COAST-WISE)	
	April to July, 1922	April to July, 1921	April to July, 1922	April to July, 1921
Food-grains—				
Rice Mds	4,000,173	4,468,784	2,063,610	714,094
Paddy "	1,868,893	1,889,807	6,287	21
Total (in rice) (b)	4,864,294	6,358,591	2,069,897	714,115
Wheat "	1,068,197	1,866,902	9,263	51,210
Wheat flour "	60,001	122,072	122,091	261,202
Gram and pulse "	2,699,778	2,566,242	471,090	772,878
Other food-grains "	262,237	244,296	21,024	22,512
Total food-grains	8,910,287	10,183,776	2,648,012	1,882,673
Coal and Coke "	31,160,666	60,975,668	7,899,456	19,222,052
Cotton, raw Bales	61,960	42,918	29,989	12,208
" twist and yarn, Indian Mds	150,070	145,182	20,622	49,522
" piece-goods, Indian Rs	3,76,78,665	2,86,20,069	4,73,961	6,26,975
Indigo Mds	218	100	1,221	4,702
Jute, raw Bales	224,779	762,215	717,214	370,468
" gunny-bags No	62,806,817	89,067,269	290,886,336	206,122,226
Lao Mds	216,200	218,516	175,529	204,772
Oilseeds—Linseed "	2,282,677	1,227,645	1,826,060	761,006
" Rape and mustard "	1,725,519	1,228,811	19,927	3,248
Silk, raw "	1,261	261	1,758	745
Sugar—refined "	57,021	41,490	120,466	98,207
" unrefined "	116,079	192,320	16,722	12,297
Ten (Indian) "	269,116	222,087	269,787	668,107
Tobacco—unmanufactured "	210,188	226,771	62,228	26,468
" manufactured "	10,869	18,106	2,996	4,102

	IMPORTS		EXPORTS	
	BY SEA (FOREIGN AND COAST-WISE) (c)		BY RAIL, ROAD, RIVER, CANAL AND SEA (COASTWISE)	
	April to July, 1922	April to July, 1921	April to July, 1922	April to July, 1921
Cotton twist and yarn—foreign Mds	66,042	67,186	76,887	66,090
" " " "—Indian "	51,707	24,712	166,742	171,184
" piece-goods—foreign Rs	7,23,67,609	7,67,71,062	7,95,86,646	7,22,04,277
" " " "—Indian "	1,88,22,128	1,12,89,188	2,04,06,590	1,42,41,412
Kerosene oil (e) Mds	2,184,372	1,694,427	1,942,671	2,026,516
Salt "	2,782,225	1,742,062	2,422,706	2,585,466
Gunny-bags No	...	...	22,075,711	26,595,712

(a) The imports by sea are coastwise imports from other Indian ports only.

(b) One maund of paddy is equivalent to 26 seers of rice.

(c) Including figures of Budge-Budge trade.

(d) The imports by sea include imports from other Indian ports, together with imports from foreign countries.